

Red Hat Adds Directory, but Users Stay Focused on OS

Vendor's efforts to go beyond Linux aren't an easy sell, IT execs say BY CAROL BLIWA

Red Hat Inc. marked the occasion of its first user conference last week by officially launching its Directory Server, the latest addition to its open-

source software arsenal. But Red Hat faces an uphill climb as it tries to

build on the success of its market-leading Linux distribution with additional offerings that move higher up the software stack, according to some

analysts. They said the strategy puts the Raleigh, N.C.based company into competition with better-established vendors that, in many cases, are its hardware and software

That point was backed up by several users attending the inaugural Red Hat Summit here. Although the users said they like having opensource alternatives to

the commercial products they now use, they added that it's unlikely that their companies will swap out their directory infrastructures or

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Sun Stakes Rebound On Storage Tek Gambit

Acquisition plan intrigues some users but leaves others with questions

Sun Microsystems Inc.'s agreement last week to buy

Storage Technology Corp. for about \$4.1 billion could be a good deal for both companies. some users and analysts said. But it left others scratching their beads and thinking that Sun could have put its cash to much better use

There was general consensus, though, that each company had little choice but to make a significant move. Sun, in particular, had to do some-

thing to boost its storage busisition against rivals such as according to IT managers.

ness and its overall market po-IBM and Hewlett-Packard Co. Scott Briand, a senior IT analyst at Nova Scotia Power Inc. in Halifax, called the planned Storage Tek acquisition an "eve-opener" that may

ive some needed direction to un's storage efforts, which be said haven't been clear. Several months ago, Nova Scotia Power purchased disk arrays from Hitachi Data Systems Corp. Previously, it was using Sup-branded storage products made by Hitachi, but Briand said Sun's rebranding "didn't seem to add a lot of value." He added that the purchase of Storage Tek will prompt him to "look and see

what (Sun is) doing and where Sun, page 16

IT Sees New. Denser Servers As a Better Fit

Saving on data center real estate a big factor in buying decisions

BY PATRICK THIRDDEAL Many users upgrade to new servers because they need performance gains or improved capabilities. But there's another reason that may become an increasingly important factor in server purchases: the desire to avoid new real estate costs by deploying higher-density servers For instance, IBM last week announced an x86-based system that can scale up to 32 Xeon processors and is also designed to support the dual-core version of the chip that Intel Corp. plans to release next year. Among the compa

nies that are testing the xSeries 460 server is Los based St. Paul International Servers, page 49

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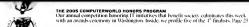
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Vol. 39 Iss. 23 JUN 6

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Toshihito Suda Senior Manager, Nisson Motor Company, Ltd.

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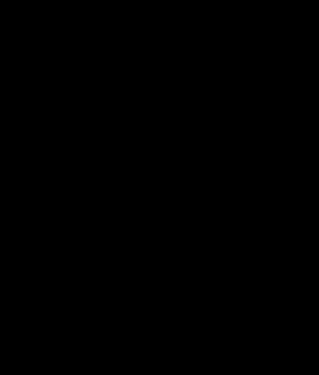
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Red Hat Plans to

Spin Off Fedora

Red Het Inc. said it will create an dent foundation to oversee its Federa open-source soft-ware initiative. Red Hat will still provide financial and engineering support for Federa, but it hopes the Federa Foundation will attract seder participation in projects. ark Webbink, Red Hat's deputy al counsel, Blassed the move o IBAC's soin-off of its Eclipse de-

FDS Faces Possible \$166M Write-down

ectronic Date Systems Corp. may be forced to write down as much as \$100 million in its second fiscal quarter due to problems with an underlocad project. EDS said that by May 2, the and of its first quartor, it had invested that amount in the project. EDS blamed projec-

awson Buys vedish Vendor

The ERP market continues to ate with Lawson Soft-'s accessition of intentio ck. The enterprise software spany will operate under the reen name with U.S. headers in St. Paul, Minn., and local headquarters in des. The deal is expected

on by year's ond. Intel Discloses More About Yonah CPU

led Corp. has shed more light on its forthcoming dual-core mobile chip, confirming that the Yonah mor's two cores will share single bank of cache memory. fenals, the dual-core version of intel's Pontium M processor, is slated to ship in the first quarter sted design that shares

AT DEADLINE HP Faces Scrutiny Over On-Demand Strategy

Vision for Adaptive | said he would give Enterprise needs honing, users say

BY MAYT HAMBLEN Co. today plans to expand on its Adap-tive Enterprise strategy for on-demand com

puting by announcing two OpenView software tools for managing service-oriented architectures (SOA) and reporting on internal controls for regulatory compliance purposes. Analysts generally praised

the new products, but they and some officials from the Open-View Forum International (OVFI) user group faulted HP for getting off to a slow start on the overall strategy, which the company announced two years ago. Some said HP has created a broad vision for Adaptive Enterprise without clearly defining its parts.

"I don't think HP's done a good job of explaining Adaptive Enterprise," said Steve Wostal, a former OpenView user who is now a consultant at Indianapolis-based Pepper-weed Consulting LLC, which offers OpenView implementa-

"There's a gap between mentation and theory." added Wostal, who is also a former OVFI board member "While the theory is great, I don't think the application has been provided. I want to see their implementation strategy."

Push for More Progress Wostal and others said they appreciate that Adaptive Enterprise follows the fundamentals of the IT Infrastruc

ture Library, especially ITIL's guidance that IT systems be provisioned to be flexible for changing business needs. But Thomas Reinsel, Pepperweed's president and CEO and president of the OVFI.

HP only a "B" grade for progress on its Adaptive Enterprise

"People still don't understand the concept or central idea." Reinsel said, "There's still a lot to understand (about) what it means to be adaptive, and we've got a

long way to go. Part of what's confusing is that an Adaptive Enterprise approach can encompass so many major IT concepts, such as change and configuration management and virtualization of servers or storage

For example, HPs OpenView Business Service Management suite, which was announced last year, provides "very praematic approach

for describing business processes," Emmett said. be heading in the right direc-

he said.

Reinsel said HP appears to

solutions manager

ment software busi

ness, defended the

in rolling out prod-

ty regimented with new technologies,"

for HP's manage-

that he hasn't been fully briefed on them The products, which are due to be announced at this week's HP Software Forum in Denver, include the OpenView SOA Manager and Compliance Manager. The latter tool is designed to provide reports on corporate compliance with company's progress laws such as the Sarbanes-

tioo oo Adaptive Enterprise

with its two new OpeoView products, although he ooted

Oxley Act. ucts to support
Adaptive Enterprise.
"We've been pret-SOA Manager is built around software that HP acquired when it bought Web services management tools vendor Talking Blocks Inc. in 2003. That product will become an "anchor point" between business users and IT, said Todd DeLaughter, vice president and general manag-

ware unit. "The tire-kicking around SOAs is now hitting the mainstream," he added

OpenView Group Embraces HP's User Event

national's board last week voted unerimously to hold the group's 2006 conference as part of HP's. new companywide user event instead of continuing to sched-

ule it separately. The OVFT's arroad HP Softwere Forum is produced jointh with the vendor, and this year's event starts today in Denver. But next year's conference will take place within the HP Technology rum, which HP is launching this September as a vehicle for consolidating its various user-

'Our goal is to kind of put a conference within a conference and ... still maintain our identity." said Thomas Reinsel, president of the eight-person OVF) board. The stakes are high, and we are concerned about the blending of software into a large event. Whether we lose our iden ity - we need to monitor that.

The OVFI agreed to join the concerns that the correctory minht not send somekers or

technologists to the HP Soft-ware Forum in the future. Rain said. "If HP heads west, we have to head west," he explained. Reinsel added that the un-

group, which has about 7,000 members worldwide, wants to aggressively work with HP on lening the number of peo ple that get exposed to HP soft wore." He said the change will be officially announced Wedne day at the OVFT's conference. which is expected to attract shout 2,000 OpenView users

Mile Pecker, co-chermen of the CNFT's New England chapter, said he and some other chapter leaders disserted on the merger plan. While it makes sense for HP to cush its meny user groups to consolidate und a single umbrefle, I worry that those groups could eventually lose their voice," said Pecker

who heads Fognet Consulting in West Boylston, Mass. The CVFI atready plans to play a role at the first HP Technalogy Forum in New Oreans. as does the U.S. chapter of the

Encompass user group, which has its roots among the cus-tomer base of the former Digital Equipment Corp. The OpenVew group will help develop content for sessions, but many of the de

tails have yet to be worked out. For the combined 2006 show the OVFI has reached an agreement with HP that will let it sell booth space to other vendors. which is a major source of the user group's funding, said Rein sel, who is also president and

CEO of Pepperweed Consulting. The OVFI was formed in 1993 and its first president was flichen turn, who is now an analyst at Enterprise Management Accoci-ates in Boulder, Colo. Sturm suid a separate OpenView user event

I think the software event's main value is education, and that can be served at any event Sturm said. And HP has effor ence over the existing Open/Vev conference anyway, he noted. adding that "I's not entirely in-

Role Reversal: Audit Uncovers Gaps in SEC's IT Controls

Sarb-Ox enforcer has weaknesses in access controls

BY THOMAS HOFFWAS The shoe is on the other foot at the U.S. Securities and Exchange Commission after an audit of the agency's 2004 financial statements revealed that the chief enforcer of the Sarbanes-Oxley Act had "numerous" information security

control weaknesses of its own. The audit, which was conducted last summer by the Government Accountability Office and published on May 26, found that the SEC "had not consistently implemented effective electronic access controls" around user accounts and passwords, access rights and permissions, and

network security There's a touch of irony in the GAO's findings, since the SEC is charged with enforcing the Sarbanes-Oxley Act of 2002, which requires execunies to attest to their organiza-"There's some schaden-

freude in discovering that the arbiters of what's right can't seem to get it right themselves," said Cathy Hotka, former vice president of IT at the National Retail Federation, who now runs an IT consultine practice in Washington.

Steps Taken

For its part, the SEC has already taken several steps to comply with the recommendations of the GAO audit some initiated prior to the recommendations' release. said Corey Booth, a former McKinsey & Co. consu who became the head of the agency's Office of Information Technology in early 2004.

Those steps to comply include strengthening the process of authorizing information systems accounts and passwords for SEC employees and discontinuing authoriza-

been a shift towards behav-

ioral detection and intrusion

prevention. Obviously, we're a

company with a good pedigree

in reacting to attacks with our

antivirus software. But we saw several years ago that the

threat profile and the speed

of propagation would outstrip

in 2006, with network access control products. We're going to call it the McAfee Policy Enforcer, and it will consist of a series of system software that does near-real-time vulperability analysis on map aged devices, plus network scanners from the Foundston

product line. A lot has been made of Micros plans in the IT security market, is the Microsoft threat to pure-play lors such as McAles overstat od? Microsoft will clearly be a significant competitor. But our belief is that they'll be most

effective in the consumer arens. Luckily, our channel strategy is focusing on two areas where they have less muscle
— in PC OEMs and in service providers, [But] Microsoft will present a bar that we have to clear in terms of added value.

tion for employees and contractors when they stop working for the agency. The SEC has also upgraded many of its intrusion-detection systems and firewalls, Booth said. In addition, the SEC has since added four information security specialists to its 130person IT department and

has created a more systematic process for vetting security issues in its IT development and deployment procedures. according to Booth. The SEC expects to address

all of the GAO's security recendations by next June The bulk of the work will be completed this year, said Rooth. He declined to specify the amount to be spent on the work but did note that the agency was awarded a sevenfigure increase in its information security budget for 2005.

Empathy for the SEC

Even though many auditors and corporate executives have snumbled about the time and ests required to comply with Sarhanes-Oxley, some said they are empathetic to the challenges that the SEC face "I respect the SEC - they're

in an incredibly difficult position," said Joseph Lacik Jr., CIO at Aviail Inc. a Dallasbased aviation aftermarket

Although Lacik said he doesn't expect the SEC to face much backlash from corporate officers for its information security control gaps, he did say that the agency should be held to the same standard as the companies it regulates. "They have to eat their own food like everyone else "

Marios Damisnides, inter national president of the Information Technology Governance Institute in Rolling Meadows, Ill., said the GAO findings aren't surprising. since "many corporations" have uncovered IT-related control issues in their Surbanes-Oxley compliance efforts. Said Damianides, "They're a government entity that, like any corporation, has to take

care of its controls frame-work." © \$4808

GAO Says FAA Needs a Stronger IT Architecture

THE FEDERAL AVIATION Administration must develop a strong enterprise architecture if it is to successfully mo on its air traffic control navtems, according to a report eased last week by the Sovernment Accountability

The 6AO had been ask by members of Congress to sine whether the FAA has effective management processes for developing and architecture that would serve as a blueprint for the modern-ization effort.

The FAA's enterprise architecture program today in-cludes two projects - one for (NAS) operations and another for its administrative and mis sion-support activities. The main problem with the ellart, according to the report is that the FAA hean't yet es

ing, maintaining and intole AA said the agency is prop

ing a formal response to the GAO's report, which it will sub mit to the U.S. Department o The GAO said it's "critical that the FAA establish an of-

he early support of serior nes at the agency. In its response to the re the Department of Transp setting up a steering com

McAfee Shifts Its Focus To Intrusion Prevention

On the eve of McAfee Inc.'s wal meetis analysts last dent of the San ta Clara, Colif.based company.

poke with Computerworld about McAfee's enterprise strategy and its plans to add new network access-control products next year.

hat kind of enterprise-ori

what most companies would be able to handle in terms of incident response times. What about risk more products? You'll see the first

real marriage of our risk man agement technology (which McAfee acquired when it bought Foundstone Inc. last gust) with our intrusion prevention technology early

Nortel Shins Fix For VPN Bug

Nortel Networks Corp. is offeri a fix for a vulnerability that cool let an attacker crash a virtual ata natural mater with a gle malformed packet. The as reported by Internet secur testing company NTA Monitor Ltd. and affects several Hortol VPM routers. NTA called the vulrability "serious," Nortal nave it "major priority" status.

Infosys, Alstom Plan R&D Center

rs Technologies Ltd. and Alstron SA are jointly opening a rengalore, India. Paris-base erch at the R&D center over three years while grow the staff to 300. Inloops staff will run the center and provi

HP Unveils Three

Thin-Client Devices Howlett-Packard Co. has uncan provide basic computing ver for low-end users while ing IT maintain central eve the systems. The three Compac 100 devices - priced from 10 to \$310 - are cheaper the HP's low and PCs. They will be

Tibco Issues 01 Results Warning

Then Sultanes Inc. surroud that or then expected in its just-led second quarter, marking cond quarter in a row the my has fallen short. The o for the period to be les to \$1

C ON THE MARK





New Infrastructure **Lurks Behind**

... the rush to service-oriented architectures (SOA). And it won't be just more software. A new layer of hardware ultimately awaits IT managers who deploy Web services, which depend on XML messaging. "We need a network that knows how to handle

ment at Parasoft

Corp. in Monrovia.

full-blown SOA infra-

structure is coming

because of the tech

"The early adopters

are gone, and we're

nology's success.

off to the races," Ariola says,

He claims that many compa-

ples in the race have wound

up on Parasoft's doorstep be-

cause of its SOAPtest devel-

ships this week, adding im-

is overloaded) or deter-

mine if your SOA ap-

proach complies

with Web ser-

starts at \$3,995

vices standards.

ent tools. Version 4.0

messages, not just packets," insists Eugene Kuznetsov, technology officer of DataPower Technology Inc. in Cambridge. Mass. Next quarter, DataPower will ship its yet-to-be-priced XML Concentrator chassis, which is

laden with blade computers that use specialized message processors to accelerate XML performance and apply security and quality-of-service policies. Kuznetsov acknow edges the expense and headaches of adding another hardware layer inside most corporate networks, which is why DataPower is targeting Internet service providers with XML Concentrator, Service providers will be able to

charge you a pretty penny for processing XML messages pennies you'll be glad to part with just to avoid managing more IT gear. Wayne Ariola, vice presi-

dent of corporate develop-

Migrate Visual Basic apps to Linux and Mac-

intoch clients with the touch of a butten. RFAI hasic 2005 imports VB code and compiles versions of the program

for Linux and Macintosh users. The integrated development environ

ment from Austin-based Real Coffeens Inc. next much thing in its final form for Windows and Mac systems and goes into beta for Linux. The Linux version will be ready for release by month's end. According to CEO Geoff Perlman. VR users who need to deploy their work on non-Windows systems no longer have to worry about virtual machines or managing Dynamic Link Libraries, becau Calif., agrees that spe-REALbasic handles those decialized hardware for tails and more. The new remessage handling is inevitable. He says a

lease adds about 100 features. such as a tabbed browser and the open-source SGLite datahave, and costs \$395 for the Professional Edition. Perlman suggests that REALbasic also will appeal to VB coders who are unhappy with Microsoft Corp.'s forced march toward Visual Basic Net. "VB Net is radically different than VB 6 for most users," he says.

Hercules ships as software or as . . .

proved security- and penetra-... part of an integrated ap anna, Citadel Security Softtion-testing tools. For example, you can check if your apware Inc. in Dollas this week plication's code is susceptible releases an appliance version to XML bombs (messages of its Hercules 4.0 vulnerabilthat continually call themity management tool as an alselves until a system's RAM

ware by itself. Hercules gathers asset data from a dozen or so network-scanning products, finds system vulnerabilities and then remediates those security lapses. Carl Banzhof, chief technology officer at Citadel, says IT focuses too much on patching software defects, which reflect only 20% to 30% of all vulperabilities. Unsecured accounts, unnecessary services, back doors and misconfigurations of systems account for the majority of the problems Banzhof says. In addition. Hercules 4.0 adds risk analysis reporting so users can prioritize fixing vulnerable de-

vices. Software licenses for

ternative to licensing the soft-

Hercules 4.0 start at \$28 per device. The HSI500 appliance. with the software, carries a \$1,000 monthly subscription fee plus per-usage charges. Now that the 'O' word no longer . . .

... needs to be whispered by users weighing possible outreins moves [QuickLink 54064], Artifact Inc. CEO Mark Wesker contends that IT executives should start thinking like their peers in manufacturing. Software development is largely specialized and repeatable and thus could be automated, be arrues. An application development supply chain "is emerging underneath our feet right now," he says, so much of the work should be outsourced to the best supplier for a given task - either onshore or off All IT peeds is "visibility and control" throughout the appdev process, he claims. Balti-

more-based Artifact offers an online service that gives IT ers dashboard views of the state of an application's development. Pricing starts at

\$500 per



With BPA that transections taking place over the interest or on the plane, NO DIRECT is continuous froit pol to them. It has had possed seen. That is why the DIRECT interest to Spirit for a complete referenmentations solution that addresses their entires sensitive and raishably wased. The Sport Perfects P Beavest made of posseller (MR DIRECT is integers and create and Was traffic over a range, private sensitive. The wide black consecutivity in the Sport Perfects P Beavest made by a sensitive or with absolution consecutivity in the Sport Interest. All ones to the Sport Perfect of Perfect interruptions. When every contenter can be the first customer in fine, bashing as benefited With Sport, business in beautiful."

> Visit Sprint.com/boartiful for case studies or call 877-777-5668 > Wireless. Data. Voice. 17.

ty line, said Mike Kilpstrick, a NonStop consultant in Taylor, Texas. "Unless that box has

been out in the field for any time, it's hard to say how reliable it will be," he noted. HP officials said they expect

the old and new systems will

cases "A lot of customers will

time," said Randy Meyer, HP's

director of enterprise storage

grated applications off an old-

er NonStop to an Itanium-

based system is Bank-Verlag

which processes records and

ensures regulatory compliance

for some 300 banks. Wolfsang

Breidbach, technical director

of NonStop systems, said the

migration took one IT worker

only a couple of days. O 54826

One user that already has mi-

he run side by side in many

have coexistence for a long

and servers

HP Users Say NonStop Servers Will Need Long-Term Support

Current models are still expected to be in use beyond planned 2013 cutoff date

BY PATRICK THIBODEAU Co. last week said it will continue to support its existing MIPS-based NonSton servers through 2013, despite a plan to begin shipping Itanium-based models next month. But some users of the fault-tolerant systems think HP may have to extend the support even beyond

that far off date In an era when commodity servers are routinely replaced within three to five years. users and consultants say that NonStop systems running mission-critical transaction processing workloads project-

ly stay in production for seven to 10 years. And there are stories of machines remaining in eration for 15 or more years. HP will sell the NonStop hardware, which is based on

processors from Silicon Graphics Inc., until the end of 2008. Users who continue to buy those systems over the next several years may need support longer than HP now plans, said Neil Clark, a systems consultant manager at Gallagher Bassett Services Inc., a risk and claims management company in Itasca, III.

*Offering support for only five years after selling a system doesn't seem long enough," Clark said. His point was backed up by Cathy Meurer, the Tandem

technical services manager at U.S. Foodservice Inc.'s national processing center in Phoenix. Meurer said she expects that many users will run MIPShased NonSton systems beyond 2013 and that HP will continue to support them.
"Tandem" refers to Tandem

Computers Inc., the company that developed the NonStop line prior to being bought by Compaq Computer Corp.,

which HP later acquired. Meurer, who heads a regional group of Tandem and Non Stop users within the ITUG user organization, said there have never been any questions raised about HP's opening

products and features maybe," she said. "High main tenance costs - probably. But

NFWS

maintenance ponetheless." Some companies, especially ones that are running high transaction volumes, such as Chicago Mercantile Exchange Holdings Inc. and Bank-Verlag GmbH in Cologne, Germany, plan to quickly begin adopting

the new Integrity NonStop line because of the performance improvements expected from Intel Corn's Itanium 2 chip. HP formally announced the Integrity models last week [QuickLink 54647] and said they can run up to 2.5 times faster than existing models.

Integrity NonStop

ORE CHLINE For additional coverage of this topic, visit our Hardware Knowledge Center

> lyst at Current Analysis Inc. in HP's new ProCurve Routing Switch 9400sl series supports IPv6 and offers up to 32 ports for 10Gbit/sec. routing of data, said Al Madden, the compa-

ny's Americas product manage er for ProCurve Schuchart said users of the 9400sl series need to follow how the product evolves because it's based on the Bigfron MGS switch built by Foundry Networks Inc. Foundry isn't expected to provide further upgrades for the switch, he added. However, HP said there

for the 9400sl series. In addition, HP plans to roll out new switching technology in the fall that will involve a core network device with less intelligence built in and more distributed to devices at the network edges, Schuchart said. The new concept is based on technology that HP acquired from Riverstone Networks Inc. last June.

will be support and upgrades

Madden wouldn't say whether the 9400sl was devel oped by Foundry. O 54829

But many other users will likely wait for later releases before switching to the Integri-3Com, HP Expand Switch Offerings

3Com Corp. and Hewlett-Packard Co's ProCurve networking unit will separately announce new switches and software products today, expanding their support for building security and manage-

ment tools into corporate 3Com is introducing a family of 12 stackable switches, primarily for use at the edge of networks. It's also adding two switches with modular chassis to its Switch 7700 family, plus software designed to support endpoint security and configuration of networks that in-

clude equipment from 3Com and other vendors. HP will roll out a switch

that supports multilayer routing at the core of a network, as well as no-cost software cobancements intended to improve the security and mobility of devices connected to its ProCurve 5300xl series of network edge switches. HP also plans to announce up-

and wireless access point software Mark Berkheimer, a poten tial customer for 3Com's new stackable Switch 5500G de-

vices, said they could be used **New Switches**

from 3Com's joint venture with China-based Huawei Technologies Co. Berkheimes poted that be could stack up to eight 5500Gs, with a total of as many as 384 ports, to act as one switch. "That will cure most user needs," be said. Analysts said that the new security and management products and upgrades are part of an ongoing trend by

work "with all the bells and whistles, without the outlay [for] a large chassis."

Berkheimer is an IT manage

er at the Susquehanna Area Regional Airport Authority which operates Harrisburg International Airport and two

other airports in Pennsylvania. A Cure for Most Needs The 5500G is another enter prise-class offering resulting

switch makers to incorporate

become [basic] to have some

kind of security in switching,

said Steve Schuchart, an ana-

such tools for networking. "It's

Secure thinair powered by cisco. Powered, Durchase orders, or mails.

Passwords, purchase orders, e-mails. All flying through thin air, now protected through thin air, Cisco self-managing WLANs let you give freedom to users without giving up control. So collaboration happens from conference room to company canteen.

And private business never becomes public domain. For more on Cisco WLANs, go to

cisco.com/poweredby.

Oracle Revises

Solaris 10 Licensino Oracle Corp. has charged licensing terms for users that run its se on Sun Microsystems Inc.'s Solaris 10 operating system, revising a model that analysts said put Sun at a competitive disadvantage with Hewlett-Packard Co. and IBM. The change lower licensing costs for Solaris uners running Oracle software on only part of their servers, a prac-

tice culled cartification Nortel Reports Loss On Slight Sales Rise

Nortal Hatworks Corp., recov from an accounting scandal and an industry desenture, reported a first-quarter loss on sales that rees alightly from last year.



Quest Buys Vintela For \$56.5M in Cash

Irvino, Calif.-based Quest Softwere Inc. has agreed to acquire privately hold Vintala Inc. for approximately \$50.5 million in cests. Lindon, Utah-based Vintala Corp.'s Active Directory and Sysns Management Server to man-e computing environments that us pistforms. The deal is ted to close this summer,

Fed Agencies Eye

RFID Technology Some U.S. government agenci are oping radio frequency ide fication technology as a tactic to sure manay and improve serices, to a report, the Government economishing Office said it found test 13 of 24 federal agencies are

||Tablus, PortAuthority Unveil Security Tools

Updates aim to boost protection against data thefts

WO NEW contention to be " to be released this week will add to the growing number of options for security managers looking to protect sensitive data against omises and theft. Tablus Inc. in San Mateo.

Calif. and Port Authority Technologies Inc. (formerly Vidius Inc.) will both release undated versions of their respective technologies this week.

Tablus' upgraded hardware and software platform features a component called Content Alarm NW 2.0 for monitoring and blocking information leaks via the network and a component called Content Alarm DT 2.0 that's designed to do the same at the desktop

level. The company touts it as the first content monitoring product designed to prevent data leaks at both the network level and at the desktop. The product uses Googlelike crawler technology to

identify and "fingerprint" sensitive data such as financial or personal information. On a network the Tubbus tool monitors traffic to ensure that the fingerprinted data is not illegally transmitted out of the network via e-mail, instant messaging, FTP or any other

means, said CEO Jim Pante. A similar approach is being applied on the desktop side to ensure that users can't illegally modify, copy, delete or save protected data on thumb drives, external hard disk or private e-mail spaces, be said.

Such capabilities are crucial for protecting sensitive data, said Dmitriy Kalika, IT director at Amide Pharmaceutical Inc., a manufacturer of gener ic druss in Little Falls, N.L. Amide's networks hold drug

is relatively easy to print out or download and spirit away in devices such as USB thumb drives and external storage

devices, Kalika said. *With Tablus, I can control what happens to the files" he said. "It does not allow anybody to do anything unless

they have permission." Data Recognition Corp., a Maple Grove, Minn.-based provider of educational testing and assessment programs is using Tablos' network monitoring technology to protect

test booklets, answer keys, scores and similar information, said Michelle Edenborn, the company's IT director.

All information that is transmitted out of the come ny's network is inspected for

Internal Mail, with a function for scanning internal e-mails for signs of data misuse. The product, which already allows e-mails, adds support for Microsoft Exchange 2003 internal

Meanwhile, Beverly Hills. Calif-based PortAuthority is enhancing its content monitoring product, PortAuthority for

companies to monitor external

and fears of data loss are driving much of it, he said. Also, network security ven

dors traditionally haven't paid a lot of attention to content protection and issues such as inappropriate use of information by insiders, which vendors of content monitoring tools are beginning to address. Keldsen said. O 54822

e-mail and for ISA 2004 Web

said Dan Keldsen, an analyst

at Delphi Group, a Perot

Systems Corp. company in

Boston. Compliance issues

proxy servers "There is definitely growing interest" in tools such as these.

w Tables Content Alarm WW 2.0 and Content Alarm DT 2.0: Real-time nativest traffic analysis. Impaints analysis of both structure unstructured data, and Google-Nia creater technology for creating dig

sensitive data by Tablus' ap-

Informix Users Want More From IBM

IRM is trying to reassure customers who fear that the

perception that the Informix database is a dead product will continue to grow and eventually become reality IBM bought the Informix technology in 2001 to boost its

presence in the distributed database market and better compete against rivals Oracle Corp. and Microsoft Corp. While seven Informix customers interviewed late last

month at the International Informix User Group (IIUG) conference and elsewhere said IBM is responsive to their development needs, some fear a continued lack of visibility will lead to more independent software vendor defections and stronger efforts by IBM's sales force to convince user

to replace Informix with DB2. tronically, some DB2 users recently criticized IBM for perfection their product [QuickLink 54664].

ner Inc. released a report showing a decline in Informix sales during 2004 and noting that key IBM partners such as Computer Associates Interna-tional Inc. have said that they won't support future versions of Informit

Prevailing Perception

"The world has a perception that Informix is dead," said Stuart Litel, president of the IIUG and chief technology officer at Informix reseller Kazer Corp. in Lee's Summit, Mo. He blamed that partly on IBM's postacquisition plan to create a "merged product." Several users criticized

IBM's database sales force as overly DB2-centric, "It's almost like they are satisfied in supporting the Informix product line for the current user base but do not want to risk possible sales of the In-formix line affecting their DB2 revenue," said Clifton

at a company that be asked

not be named. One database a from a hospitality company, who also asked not to be named, runs the flagship Informix Dynamic Server Version 9.4. He said there have been some attempts by sales-

people to introduce DB2 into his shop. Kevyn Schneider, a business intelligence architect and IIUG member, said that after the postacquisition departure of most of the Informix sales force. "I think many in the In-

formix community feel we are the stepchildren. Bruce Weed, program director at Informix, said IBM is holding road shows and onli events to let customers and developers interact. This year, the company will start to focus on grass-roots marketing among partners to make them "aware of the viability of Informix," he said. © 54000

SQL Server 178,000 Oracle 88,670



IT News Digest

Israeli Police Uncover Trojan Horse Spy Ring

a corner have moovered a manor industrial sey time that allength used troop horse software to snoopanto some of the country's leading companies.

A husband-and-wife team, Michael Hacebran and Ruth Brief-Hacebran. was detained last week in Fondon on suspection of creating the Troumhorse program. The software was sent via compiliar computer disks to people at targeted companies and was then used by competitors to lursest confidential information from the infected PCs according to a report in the Hagretz

пемьрорет The Tel Acre-based newspaper detailed how a wide range of businesses, including **GLOBAL FACT**

television, mobile phone. naturation and militar companies, allepedly used the Treian horse to obtain "tens of thousands"

of pilfered documents. Police told Houses that the companies start ed using the malicious software after engaging the services of any one of three private investiga-

An International

from agent ics, which were given the Lisk of carrying out the industrial core onage. The new spaper reported that

another 21 people have been detained ■ LLCHARGE U COM HTR AND IDS NEWS SERVICE

U.K. Biometric Test Finds Scanning Glitches

LONDON ■ tr. C. COVERSMENT has reintro doced a bill to create a biometric identity eard system by 2010 to help fight terrorism and traud, after having shelved the measure before last month's general electron [Quick] ink 52 HL Birt it also released a report describing what officials called "teething problems"

with the technology. The report on the U.K. Present Service's early month trul of biometric technology which in volved 10,000 people, citnine large fingers and the eyes of people with dark complexions, for example

Of the three methods tested, facial scanning had the lowest verification success rate, espe-

cally in had lighting, the study found Emocrerint scanning had a better suc cess rate, but the report said the scanner surface was "too small to scan a sufficient area of fine-ground from our incipants with large fingers." Eve scan ning was the most accurate, but the machines had difficulty scanning the irrses of people with dark complexions and people over the age of 93, accord-

me to the report . LAURA ROHDE IDG NEWS SERVICE

Japan Aims for PFLOPS In Supercomputer Race

ON THIS WONTH Will begin a research effort to build a supercomputer capable of crunching numbers about 30 times faster than today's tastest system can, the country's government said last week

Japan's Ministry of Education, Culture, Sports, Science and Technology has established a program with NEC Corp., Hitachi Ltd. and several larun ese universities to develop by 2011 a supercomputer that can perform mon than 3 quadrillion floating-point opera tions per second, or 3 PFLOPS, "We predict that [IBM's] Blue Gene/L or its successors will be working at about 3 or 4 PH OPS around 2010. Our target is

to be at least the same speed or faster, a ministry official said. O 54777 ■ PAUL KALLENDER IDG NEWS SERVICE

Compiled by Mitch Betts.

Briefly Noted Transmeta Coro in Santa Clara

Calif. said last week that it has agreed to sell its Crusoe line of microprocessors to Culturecom Technology Ltd. in Hong Kong for \$15 million in cash. Transmeta announced in late March that it would exit the chip-making business after failing to break into the market for notebook PCs (QuickLink 53539). ■ PAUL KALLENDER IDG NEWS SERVICE

Destsche Telekom AO, Europe's largest lelecommunications ser provider, last month named 45year-old Peter Thomas Sany CIO effective Sept. 1, and said he will be In charge of informs ment and processes. The Bonn based company also named its first chief technology officer. Anton Hendrik Schaef, St. who will be reponsible for technology and innoon activities starting June 16. ... JOHN BLAU IDG NEWS SERVICE

Degussa AG, a large specialty chemicals company in Düsseldorf, Germany, has selected AT&T Corn. as its worldwide data network vider under a five-year cont valued at \$45 million, AT&T ansunced last month

New Tools Aim to Extend **Business Intelligence**

sposed in a U K antifraud hill

BY HEATHER HAVENSTEIN Business intelligence is continuana its musch toward the masses as new tools emerge to provide front-line enterprise workers with access to operational data, easing daily decision-making processes. Can Lacarb read Business

Objects SA this week is planning to appeal a set of touls that will let users of its BusinessObjects XI platform embed analytics expubilities in business processes

Meanwhile, the Ottawa based Eclipse Foundation this week will announce the first for building operational BI into lava applications.

The Business Objects tool set, called BusinessObjects XI Built for Operational BL inchales process tracker and analyzer tools that allow users to connect to operational data sources like Web services Microsoft's Net, data objects said. Pricing for both tools starts of \$30,000

Oscar Vasquez, director of enterprise architecture at medical transportation company AMR Inc. in Denver, said the new Business Objects tools could help him alien ambulance disparchers, drivers and paramedics by providing analytics capabilities in those

workers' processes

"We've got workers on the supply side and the demand side. [and] they don't often seceye to eye because they are not looking at the same information," Vasquez said: "If our front-end dispatchers understand we are reopardizing a service-level agreement, they will dispatch things differently

or more quickly." AMR plans to roll out the XI software in September Ionathan Rothman, director

of data management at Emerconver Medical Associates (EMA) in Livingston, N.L. said the new tools could provide templates to make it easier

to embed BI analytics in processes. EMA, which is runlel with an older version of the Business Objects platform, has already launched operational BI to infuse the dashboards

in hospital emergency rooms metrics on admission and discharge times and other treatment-related thresholds Roth The new tools could make it casier to extend operational BI

capabilities by embodding analytics in processes for finance, accounts payable and billing users, he added. **Eclipse Unveils BIRT**

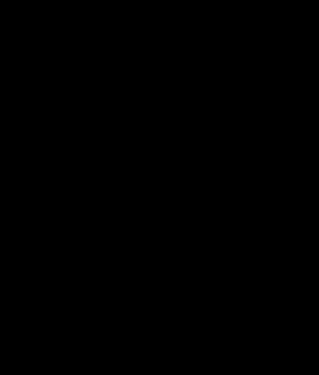
For its part. Eclipse announced that Version 10 of its Business Intelligence and Reporting Tools (BIRT) project is now generally available

BIRT, whose beta-test version has been downloaded 9,000 times since February, according to Eclipse executives. is designed to allow larg developers to easily integrate oper ational BI and reporting capa-

bilities with lava applications Actuate Corp. is launching Actuate BIRT this week to provide fee-based support maintenance and indemnification services for BIRT. The services are priced from

\$3,500 Stavros Koutús, a developer and co-founder of Osmosis Network and Consulting in northern Greece, said his company is using BIRT to build reports for its Eclipse-based desktoe applications, mainly because it allows the reports to be distributed over the

However, he added that BIRT is not as mature as some other commercial BI design products he has worked with in the past and that it has some bues related to the way the designer tool handles database connections, O 54819





GLOBAL

An International IT News Digest

ion agencies, which were given the

GLOBAL FACT

Israeli Police Uncover Troian Horse Spy Ring RAELI POLICE have uncovered a major industrial spy ring that allegedly used Trojan horse software to snoop into some of the country's

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U.K. Biometric Test Finds Scanning Glitches

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Compiled by Mitch Betts.

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Briefly Noted

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New Tools Aim to Extend Business Intelligence

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that Version 1.0 of its Business Intelligence and Reporting Tools (BIRT) project is now generally available. BIKT, whose beta-test ver

sion has been downloaded 9,000 times since February, according to Eclipse executives, is designed to allow Java developers to easily integrate oper-ational BI and reporting capabilities with Java applications. Actuate Corp. is launching Actuate BIRT this week to provide fee-based support, maintenance and ind tion services for BIRT. The services are priced from

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SAS and Intel give PFIZER HEALTH SOLUTIONS INC The Power to Know' how to help its clents provide effective healthcare to more than a haff-million patients. Read our success story at www.sas.com/phs. Power uses have been tapping into IASS unrealthed breath and disph of arehybra for years to drive their operationation became this level increasion can come from anyon, anywhere in your company. White most Bi verdion deliver historical importing calations, SAST business Intelligence and analytics software – on which finantial Topicional Control of the Control o

go Beyond Bi" at www.eas.com/Elitour . Pree product tour



Gsas.

Continued from page I

Sun

they're going to go with it." "It's pretty interesting that a server vendor decided to spend over 50% of their lavailable] cash to purchase a storare company," noted led Dobson, a systems architect at Dartmouth College in Hanover, N.H. "What I get from that is they're definitely going to take another look at their

storage strategy Dobson, who uses Sun disk storage systems and Storage-Tek tape libraries, said he hopes the deal will help him better integrate his back-end storage subsystems and imnawa sarrace lesals

But Daniel Grim, executive director of network and sysity of Delaware in Newark. is wondering what Sun will do with Storace Tek, Grim said he recently heard from Sun representatives extolling the virtues of Hitachi's products, "and that's why I'm perplexed about what their strateey really is going to be now."

HOW SUN AND STORAGETEK MATCH UP Sun Microsystems Inc.

PRIMARY PRODUCTS: Unix-based servers, workstation computers, stream subsystems

EMPLOYEES 35,000 2004 REVENUE: \$11 18 billion LAST YEAR'S SALES -2.2% compared with the previous year's 2004 NET LOSS \$386 million

The university is a heavy user of Sun's UltraSpare systems but buys its RAID storage devices from U.K.-based Xvra-

Joel White, lead IT architect at Allstate Insurance Co. in Northbrook III said be has a number of questions for Sun executives, not the least of which is how the company will deal with overlapping products after it completes the Storage Tek acquisition. Mark Camera, executive

tex Ltd

vice president of Sun's network storage products group. acknowledged some product overlap, particularly at the midrange level. But rationalizing that "will be pretty sim-

Storage Technology Corp. PRIMARY PRODUCTS: Autometed tape storage systems and disk storage subsystems

EMPLOYEES: 7,100 2004 REW MUT \$2.22 hillor LAST WARPS SALES +1996 compared with the previous year's

2004 NET INCOME: \$191 million ple," he said. "I think we're going to be able to realign and reassign people in order to get

Arvind Thange, chief technology officer at First National Bank of Omaho, which is a Storage Tek user, said he sees the planned acquisition as a move by Sun to "catch up" with IBM, HP and other major vandors that offer more complete product lines. Thapar added that he doesn't expect the deal to affect First National's IT systems

Sun CEO Scott McNorth said during a conference call that combining the two companies brings them to a "whole new level of scale and score

right away? What's your road

map? It's loo early to really be

next lew months, we're going to

able to talk about it. Over the

on a global basis." The menut will boost Son's sales force by more than 1,000 people and add thousands of service and support personnel, McNealy said. He added that there are no sumificant changes planned in the product road maps of

the two companies. 'A Step Backward'

However Chris Foster a storasse analyst at Technology Business Research Inc. in Hampton, N.H., said the deal is likely "a step backward" in Sun's effort to boost its IT services business. "I expected Sun to make an acquisition in professional services or software," he said. "I don't think Storage Tek fits that profile." Judith Hurwitz, an applyst at Waltham, Mass., said Sun had to do something to reinvent itself. "Clearly, the marketplace has said to them. Not that interestine" when looking at Sun's traditional Unix hardware. Hurwitz said. "Can

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Reporters Patrick Thibodeau and Todd R. Weiss contributed

HP Reseller Pacts in Peril. Some Say THOUGH THEY DOSAGREE on

the timing, analysts last week said the buyout of Storage Tek by Sun Microsystems will likely force the cancellation of the former's resulter agreements

with Hewlett-Packard. Roan Rehinery, an analyst at Enterprise Strategy Group, said he thinks it's likely that Sun may HP will drop its agreements with Storage Tak once the buyout is complete. The got to be leve that if you're HP and you have other choices for tape vendors. you'll be able to ra-

tonakze changing your entire lace portiolo without haven Storage liek in the mox," he said Shebly Seyrafi, an analyst al Merrill Lynch & Co., agreed that HP will shift suppliers had oredicted that the change will occur over a longer period, in the near term, she expects HP will stick with Storage Tek and

Sun as it seeks to revitalize its storage business. Enterprise Strategy Group estimates that 50h to 70h of

Storage Tek revenue is currently derived from HP reseller sales.

to this etors

Babineau said he believes that San Jose-based Quartum Corn and San Diego-based Overland Storage for have an opportunity to take over Storage liek's reseller business. Patrick Estenbichler, director

of marketing at HP's Storage Works division, said both Sun and Storage Tek last week regs sured him that the companies will confirme to support any exsting reseller agreements Nonetheless, the deal caught HP off guard. Theyen't

lound anybody inside HP who wasn't surprised. I think every body expected Sun to go more in the software direction. The tace market is declined right now," said Etenbichier Breads Zewatski general manager of Storage Tek's infor mation life-cycle managem group, said, "We don't antici-

pale any changes in our OEM - Lucas Massan

Sun Storage Chief Talks About Storage Tek Acquisition part of our managed services

Mark Canepa, executive vice consident of Sun Microsystems' network storage products group. will be overseeing the \$4.1 billion buyout of Storage Tek and will likely lead that company once if becomes a part of Sun

Computerworld about how Sun will address Storage Tek user concems around senuce and support and product Syneroies. Why buy Storage Tek?

It was very clear that for Sun to be a nomelets and-tohad to go solve the data (stor age) part Al Sun, we've been talking about doing a lot more in the managed services arena. but it's always been around managing our own stuff. Now we can become a int more

Analysts have said that you've had some major merg or failures over the past few years and that your executives don't take advice from outsiders. How do you respond to

capabilities.

that? There's got to be a balance I spend a lot of my time out these talking to the analyst community and listering to the analest community I take their advice and then you have to bland their input with the othor variables to do what we think is in the best interest of executing an overall Sun strategy

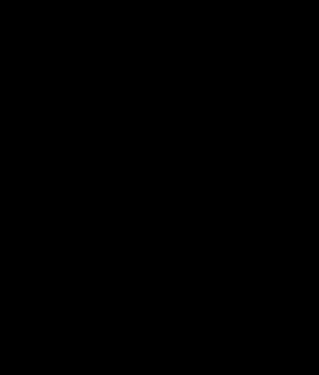
Will you keep these two com es separate? Are you poing to try to integrate them

start to fenet this thing out What do you say to Storag Tok users? How do you alleviate their concerns that their services and supp will be burt when their yendor mornes with Sun? If there's a set of best practices Storage Tele has, we're coung to learn from that if thera's a set of best practices that Sun has

that Storage liek can learn from we're nong to have them learn - Lucas Mercian

READ MORE ONLINE An expanded version of this Q&A can be found at our Web size

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Continued from page 1

Sun

they're going to go with it." "It's pretty interesting that a server vendor decided to spend over 50% of their [available) cash to purchase a storage company," noted led Dobson, a systems architect at Dartmouth College in Han over, N.H. "What I get from that is they're definitely going to take another look at their

storage strategy." Dobson, who uses Sun disk torage systems and Storage Tek tape libraries, said he hopes the deal will help him better integrate his back-end storage subsystems and im-

prove service levels. But Daniel Grim, exdirector of network and systems services at the University of Delaware in Newark. is wondering what Sun will do with Storage Tek. Grim said he recently heard from Sun representatives extolling the virtues of Hitachi's products, "and that's why I'm perplexed about what their strategy really is going to be now."

DA REVENUE: STLIS billion OT YEAR'S SALES: 0.2% reported with the provious year NA MET LOSS: \$300 million

The university is a heavy user of Sun's UltraSparc system but buys its RAID storage devices from U.K.-based Xyrs-

tex Ltd. Joel White, lead IT architect at Allstate Insurance Co. in Northbrook, Ill., said he has a number of questions for Sun executives, not the least of which is how the company will deal with overlapping

products after it completes the Storage Tek acquisition. Mark Canepa, executive vice president of Sun's oetwork storage products group. acknowledged some product overlap, particularly at the midrange level. But rationalizing that "will be pretty sim-

ple," he said. "I think we're going to be able to realism and reassign people in order to get what's needed done."

Arvind Thapar, chief technology officer at First Natiooal Bank of Omaha, which is a Storage Tek user, said he sees the planned acquisition as a move by Sun to "catch up" with IBM. HP and other major vendors that offer more-

complete product lines. Thapar added that be doesn't expect the deal to affect First National's IT systems. Sun CEO Scott McNealy said during a conference call that combining the two com punies brings them to a "whole new level of scale and scope

on a global basis." The merger will boost Sun's sales force by more than 1,000 people and add thousands of service and support personnel, McNealy said. He added that there are no significant changes planned in the product road maps of the two companies.

'A Step Backward'

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Sun has a better chance of success with Storage Tek, McArthur said describing the new deal as "less sexy but a beck of a lot healthier" than some of the company's previous acquisitions. © 54817

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DON TENNANT

Believing in Blogs

HEN YOU GOT last week's issue, chances are you read Patrick

the medium much more assertively than users. And, like I was, you were probably struck by the comment of the Sun Microsystems executive, referring to the prospect of IT managers getting into it: "If a few of those guys started doing [blogs]. you can darn well bet that we would be read-

ing them." That's a pretty safe bet, and it speaks volumes about why it's so unfortunate that corporate IT leaders appear to be so skittish about blogging. CIO blogs would command the attention of vendors across the IT board that would be eager to find out what their customers and prospective customers are saving about them and their competitors. Your expecons, demands, grievances and successes would be analyzed up one side and down the other - the subject of vendor staff meetings and strategy sessions, with you in the

virtual director's chair Now don't get me wrong - my focus on the user side of the equation isn't intended to diminish for a heartbeat how impressive it is that several large IT vendors are encouraging their employees to blog. There appears to be a genuine interest on the part of vendors like Sun, Microsoft and IBM to establish a dialogue between their employees and their customers, and to do it with mini-

mal restrictions. It takes courage to do what these vendors are doing, because clearly there's a risk that bloggers will con vey information that sheds a nega tive light on the company or create

Thibodeau's Page One story about IT blogging being onesided, with vendors adopting confusion in the market.

A prime example of the latter occurred last August when Sun President Ionathan Schwartz, a loose cannon if ever there was one, made a statement in his blog that was widely interpreted as an indication that Sun was considering a plan to acquire Novell.

concern about bloggers airing dirty laundry. After all, that's a standard raison d'etre of blogs. I can cite an example of that as well - one that hit mighty close to home. In October 2003, I read in Screenshots, a blog site in Malaysia run by a guy named Jeff Ooi, an apology by the editor of the Hone Kong edition of Computerworld for having plagiarized another writer. The admi and apology came only after Ooi

had exposed the plagiarism in his

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I worked at Computerworld Hong Kong from 1990 to 2000 and served as the editor for more than eight of those years. During that time, a lot of very talented, dedicated people worked tirelessly to build that publication into what was unquestionably the premier IT newspaper in Asia. And in the blink of an eye, this idiot trasbed everything we had done. I said as much in a blog entry I submitted to Ooi's site. I also commended him for exposing it and encouraged him to keep the beat on. As much as I hated what had happened.

I became a big fan of blogs that day. That's wby I'm especially gratified by the launch last week of a new blog area on our Web site [Quick-Link a5920]. I'll be joining other Computerworld editors and guest bloovers in an appressive effort to

expand our delivery of compelling content to you and your peers. Here's hoping the blogging momentum will build. And that your company will help build it. O 54781



BRUCE A. STEWART

The Case for The Portfolio Business Case

RE YOU FINDING it more difficult lately to construct a good husiness case? Infrastructure managers are probably screaming, "Lately? For years!" But now it's becoming more difficult for develop-

ment teams, too. Part of this was caused by the "big package" revolution of the last decade Getting every department that uses an ERP package, for instance, to contribute its portion of the upgrade costs is a hassle for most IT managers, especially when they bear, "We didn't ask for this, so we're not paying for it."

Now, other factors are starting to appear. Service-oriented architectures are a brilliant idea for advancing enterprise flexibility and speed to market. But they are a nightmare

when it comes to tracing a stream of benefits in a department and tying them to the costs of common code.

It's time to rethink the business case, because the applicait is dying and being replaced by a mix of infrastructure and middle layers with

a little application code on top, Rather then a monolith that can be justified — and uperaded — as a unit, we have many moving parts, all

on their own upgrade cycles. Better CIOs have seized upon po folio management to help them deal with reinvestment questions. The best among them have moved even beyoud that to looking at the portfolio and the business value it supports as a whole and then making investment decisions to manage the top line (by increasing value generated) and bottom line (by decreasing the cost to

deliver that value). Rather than have each project justify itself, savvy CIOs ensure that the complete portfolio - investment and reinvestment - maintains a desired rate

Coupled closely with this notion is the idea that qualitative business value - the sains you expect to be there but can't cleanly quantify - counts. Customer gains yield a revenue impact. hence a top-line gain in value for the portfolio, regardless of the cause. Likewise, it's the overall profile of the infrastructure supporting the business

that matters, not whether one part of it is experiencing a temporary cost bubble due to upgrades. If this sounds to you as though the

CIO is running IT just as the business is run, you're right. Organizations must invest in themselves just to hold their market positions. They must develop new products and take the risk that the investment won't pay off. They mus periodically replace worn plants and equipment, refurbish customer points of presence and match competitive customer-service initiatives. This holistic view is precisely what modern

IT systems demand. Some of the problems the portfolio approach solves include:

How do we justify changes we're makine to support our enterprise architecture?

Where's the business value in reducing complexity, especially when it'll take years? How do we replace the old version

of that core package when the clients don't want to pay for it? How do we justify infrastructure upgrades when there aren't enough

new applications coming onstream to pay for them? When you can say to a recalcitrant business peer, "We're doing this because it increases my ROI by 25%, and

I'm not telling the CEO I'm leaving that money on the table," that's CIO It's also a good way to demonstrate

you're ready to run a business, not just

THORNTON A. MAY Companies Striking Out On Strategy

THE PROCESS for making and executing strategy in most organizations is broken. Conversa-

tions with business school faculty colleagues conducting research on companies based in Canada, Mexico and the U.S. indicate that 70% to 90% of enterprises their strategies. The deci-

fail to successfully execute sions facing executives today truly do matter and will set the course for the next decade. Existing strategymaking and strategy-execut ing processes appear woefully unsuited to meet the

challenge. The IT Leadership Academy, drawing on research and executive interviews conducted at the CIO Executive Summits in New York and Southern California and at the CIO Boot Camp in Las Vegas, created a strategy diag-

nostic that parsed the world into four categories of organization: 1. Right strategy, right execution: 20% 2. Right strategy, wrong execution

(in part): 19% 3. Wrong strategy, right execution; 29%

4. Wrong strategy, wrong execution (in part): 32% This frightening data set motivated

us to look closely at the conventional wisdom at work regarding making and executing strategies. The first thing we did was recheck the numbers. Could the practice of strategy truly be as bad as the numbers indicated?

across the country to describe the strategies in place at a variety of major vendors. Despite the fact that these students were encouragingly smart and hard-working and had recently been exposed to the very best in contemporary thinking about strategy. they were hard-pressed to come up with a consistent description of IT vendor strategy. Strike 1 for strate-

We asked MBA students

gy occurs when people outside the organization can't figure out what your

We asked employees in the CIOs' chains of command whether the stated strategies of their organizations mat rially affected their day-to-day workplace behaviors. More than 70% said they did not. While the top of the house might be in alignment regarding strategy, the people at the oars frequently are not. Perfect pictures of the

future don't do anybody any good if they don't change behaviors. Strike 2 for strategy occurs when the behavior of people inside the organization isn't driven by strategy Conventional wisdom (a wonderful

phrase first coined by John Kenneth Galbraith in The Affluent Society) has it that strategy and strategists have bounced back from a near-death experience in the 1980s, a coma dur ing the whole dot-com boom-andbust era, and the recent episode of

carnivorous cost control. Strategy is very much back on the executive apenda. Unfortunately, senior executive behaviors regarding strategymaking and strategy-executing are all over the map.

In their very readable Strategy Mans: Converting Intengible Assets Into Tangible Outcomes (Harvard Business School Press, 2004), Robert S. Kaplan (my former professor) and David P. Norton (my former boss) provide a very understandable definition of strategy: "Strategy is based on a differentiated customer value proposition. . . Strategy requires a clear articulation of targeted customer segments and the value proposition required to please them. Clarity of this value proposition is the single most impor-

tant dimension of strategy." Strike 3 for strategy comes when organizations don't keep this very simple definition in mind. As a futurist. I believe that all signs indicate that we have emerged into what tomorrow's business historians could term a strategic era, an era

when firms have a big choice about their future evolution. Understanding and fixing broken strategy-making and strategy-executing processes will be a big part of determining whether that future is one you will eniov. © 54723

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The End Is Not Near for Corporate IT DISAGREE WITH Nicholes Carr

QuickLink 539761. He states that smaller companies will find it difficult to buy their own systems, but in reality, prices are falling so that now

even individuals can afford to buy ng power and storage. Also, IT is not exactly a co-

ity. He gas or electricity. The major cost of IT at the moment and in the overceable luture is application de velopment and implementation of company specific business logic. The cost of hardware and even software is a tirry fraction compar to this. Obviously, certain busin

architectures become standard and it makes no sense for a comreigo them on its own. The company may use a third-party "utility

company," for example, to store and secure large amounts of data. Still. It would be difficult to "utilitize" company-specific logic and intellectuel property.

> Senior software engineer, Superior, Colo., dmitri nevedroviškotnaškon

THOUX CARR MISSES one Important point: While electrical gener ation equipment moved to utilities. the machines used to produce the goods did not. Which parts of our IT infrastructures are a direct part of product delivery, and which just supply cycles, memory and reports?

Bob Hays First vice president, enterpris architecture, AEN AMRO

Services Co., Chicago, Bob.Hays@abnanro.com OMPARIME COMPUTING to

C power generation is like compering apples and granges. Having been a victim of ASP usage gone wrong, I can tell you that for most business-critical apps, there is no way a company can rely on internet-

based outsourced services. The delivery in slow and sometimes no existent, and you still require most of the same infrestructure as if you provided the services for yourself (untike power generation) There are some niches that these services can fill but I wouldn't decread on there for running businesses or mission-critical applications over again. It cost us lost productivity, and now we don't own the data conducted by

the ASP applications or the soft-

ware for future referencing of the data generated. Crain Smith

IT manager, West Chester, Pa For more letters to response to the Q&A with Nicholas Care go to our Web site.

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Vide a very understandable detrition of strategy. Strategy is based on a difteremaned customer value proposa from Strategy requires a clear artic

to please them. Clarity of this value proposition is the single most imporfor strategy comes when organizations As a futurest, Ubelieve that all stens

what romogrow's business historians could term a strategic era, an era when firms have a bucyhour about their future evolution. Understanding and fixing broken strategy making will be a big part of determining whether that future is one you will

enus O 54733

WANT DUR OPINION?

Johann are on our Web site

Services Co. Chicago, The End Is Not Near for Corporate IT

OISAGREE WITH Nicholas Carr 'The End of Corporate IT'

QuickLink 539761 He states that smaller companies will find it diffcompany specific logic and intelleccult to buy their own systems, but in mainly pages are taling so that now oven individuals can afferd to him computing power and storage

Also, IT is not exactly a commod its like gas or electricity. The major foreserable luture is application devolopment and implementation of The cost of bastware and even software is a law fraction compared

to this Obviously, certain business architectures become standard and d makes no sense for a company in develop them on its own. The comparty may use a third party "utility.

company." for example to slow and secure large amounts of data. Still, COMPARING COMPUTING IS power opposition is like com it would be difficult to "utilitize" paring applies and prances. Having

Dmitri Nevedrov Sertion software employ.

Superior, Colo., dmitry throughput a histmaticism

THINK CARR MISSES one impor-sed point While electrical gener ation equations moved to inlines. goods did not. Which parts of our IT infrastructures are a direct part of product delivery and which just

supply cycles, memory and reports? First vice president, enterprise architecture, ABN AMBO

ware for future orderercons of the Bob Hares a abnormancem been a victim of ASP usage cone

wrong, I can sell you that for most

business-critical apps, there is no

way a company can rely on Internet-

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can life but I wouldn't depend on

are some niches that these services

them for running businesses or mis-

sen-critical applications ever again

It cost us lost productivity, and now

we don't own the data produced by

the ASP applications or the soft-

Craig Smith II manager, West Chester, Par For more actives, in response to the Q&A

arth Nicholas Care on his our Web site O Outphillink 54755 www.computerworld.com

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NNOVATION HAPPENS ALL THE TIME. So much so that we sometimes overlook the significance of recent techno logical advances. Ten

years ago, we marveled at the possibilities of the Internet, instant messaging and era phones. Now, those innov tions have become commonplace.

While we accept such advanceents without hesitation, we should nonetheless take time to honor those individuals and institu tions that bring them to the world.

The Computerworld Honors Program aims to do just that. It recognizes the men, women, companies and institutions that drive the IT revolution and records their positive impact

on society

"It's a chance to honor the folks who are doing terrific things for the advancement of society. Some of their achievements are absolutely remarkable," says Comworld President and CEO

Bob Carrigan. The Chairmen's Committee, made up of CEOs and chairmen from the world's leading IT com-

panies, in April announced this year's 160 laureates. Selected fro more than 300 nominations, they come from leading corporations ols, nonprofit orga and government agencies.

A panel of judges consisting of ers in corporate, governm academic and other organizations pext chose 50 finalists in 10 cateeories: business and related services; education and academia; ennt, energy and agriculture; finance, insurance and real estate; government and nonprofit

dia, arts and entertainment; medi cine; science; and transportation



This permanent record of IT innovation serves as a tribute to the men and women who push technology's bounds. By Mary K. Pratt

Continued from page 23 Those finalists will attend tonight's awards gala in Wast on, where the 10 winners from around the world, one in each category, will be announced.

"We really know we are going to represent best of class on a world hasis," says Patrick McGovern. chairman and founder of IDG.

Computerworld's parent compan McGovern says be established the Honors Program in 1988 to counter the negative reports ab technology that dominated the ral media. "We felt how unfair it was for society to hear those stories when so many were doing

vative things," he says. The Honors Program seeks to record that history by preserving case studies, oral histories, conference proceedings, publications, pes and other recordings related to the recognized innovations. These documents - available both online and through doestions to affiliated universities. libraries and research institutions around the world - serve as rich resources for scholars and other ested individuals.

The program has grown signifantly in the past 18 years, and the list of laureates is nothing short of extraordinary. Consider these diverse examples: The Egyptian Ministry of IT and Com tions was named a laurente in 2004 in the government category for its work with a single, unified e-govment portal that allows citizens and potential investors to directly

access the services they need. The Bayfront Medical Center in St. Petersburg, Fla., was a laureate in 1998 in the medicine category for its comprehensive Web site that acts as a community bealth care resource. And the Non-toxic and Bio-Integral Resource Center in Berkeley, Calif., was a laureate in 1992 in the science category for its unique databases detailing nontoxic and least-toxic alternatives

to certain pesticides. As for the negative reports about technology, McGovern sees them increasingly being supplanted by stories about how IT improves our lives in countless ways. "The incidents of the bad news stories have seemed to disappear," he says. Now you see a lot of coverage about applications that are benefit cial to the company and the quali-ty of life for people." © 54400

Finalists

O Dankin S4707

Environment, Energy & Agriculture: Shell Oil Products US

Designed for customers, an online portal delivers unexpected savings

When Shell Oil Products US and at ciate company Motiva Enterprises LLC decided to condense three cur portals into one, the objective was to

But the new Shell Source portal also created savings and efficiencies beyond those initially envisioned, says. Frank J. Trogus, CIO at the two Hous ton-based fuel companies. "When you put in a system in like this, there are a lot of unintended benefits," he says. Shell Source has reduced IT support costs by 15% and saved \$5 million ap-

nually in printing and mailing costs. In on, with only one portal to maintain, the IT group is able to do more ventive maintenance on the system. The company has also been able to push content to customers, including gas stations, wholesalers and dealers,

trough the Web site quicker. Meanwhile, customers can manage their accounts in real time at a single

site. "Success is based on how this is taken up by the customers, and it has been taken up very well," Trogus says. Railding such success took a collab rative spirit between IT and the business unies. Trogus says. Still, challenges existed. IT had to link disparate systems. and business units and customers had

to adopt standard business proc Trogus says Shell and Motiva made a ig investment in systems, interfaces and upgrades; he wouldn't disclose the exact amount but says multiple mil-lions of dollars were spent. The system went live in late 2003 "and has already paid for itself," Trogus says.

And even though Shell Source is considered a benchmark portal, Trogus says the system was designed to be flexible so it could "morph into the next generation." O 54581



Manufacturing:

Premier Manufacturing Corp.

A paper process is ditched in favor of an automated data-collection system, saving \$150,000 annually.

David Scott, CIO at Premier Manufacturing Corp. in Cleveland, saw a chance to save \$150,000 annually by automating a data collection process that had been done manually But Scott's decision did sign

more than that: The shop-floor mon toring system, known as FactoryMRI, also increased manufacturing capacity by 7% and labor efficiencies by an estimated 19% while reducing annual setup costs by \$130,000 and defects by 50%. "We're saving hundreds of thou-sands of dollars annually with this,"

Scott says. "It's paid for itself already." Premier Manufacturing, which fabricates wire products, employs about 500 people at three U.S. locations. Its production workers had tracked infor mation on paper, writing down what

they did, the time it took, the volume fuced and other information. Another dozen or so people handled these production cards - hundreds of them every day - using them to analyze production information and calculate workers' incentive-based pay. "As any CIO is supposed to do, I

looked at it and saw that it was wast ful," Scott says, adding that he initially calculated that the company spent \$3,000 a week just to handle those cards. So in 1999, Scott decided to automate

the process. When he didn't find any off-the-shelf technology products, he teamed up with Progress Software Corp. in Bedford, Mass., to develop. deploy, integrate and manage an appli cation. Premier Manufacturing spent about \$800,000 on the project, which was implemented within nine mor Scott save.

The com features and see benefits. In addition to collecting production data of all sorts, the system can even help detect when production workers are fatigued, Scott says, based on their performance

"We keep finding new analyses, reers and tools we can do with this," Scott says. "So for the past four or five years, it's been a continuous in ment path we've been on." O Sanso

Education & Academia: University of North Carolina School of Information and Library

An eclectic mix of digital content, managed by its contributors, helps ce information sharing.

Science

Ibiblio has been a leader in cybersu for some time. Started as Sunsite unc. edu in 1992 and housed at the University of North Carolina at Chapel Hill, Ibiblio is a contributor-run digital library whose eclectic collection of material re-

mains a standout on the Internet. Ibiblio's diverse mix is more than a curiosity, though. It advances the sharine of information.

"Our goal is to facilitate the distribution of knowledge to the people of North Carolina and, as far as possible, the people of the world," says Paul Jones, Ibiblio's director and a clinical ass professor at UNC's School of Informa-

tion and Library Science.
Today, Ibiblio has more than 1,500 collections of sharable information, distributes over a terabyte of open-source and free software, and handles more than 12 million requests daily from people downloading software, listening to music and reading Web pages. Ibiblio also plays a significant role in research and innovation. For example,

it pioneered Internet radio in 1994 by ng online a digitized simulcast of WXYC. UNC's student radio station. These advances have come with challenges. For example, Jones has to handle claims of copyright violations. and while true violations have been few, he says, dealing with false claims

None of this, however, is hindering hiblio's present or future, lones says Ibiblio will continue to evolve as demands for information change. And how it looks in 10 years will undoubt edly be different, he says, because technology will change. But, he adds. the principles that have shaped Ibiblio so far — a dedication to freely sharing information at a site managed by contributors — will remain. © 54565



Pharmacy

Mustapha Beleh saw limits in standard teaching tools like blackboards, overhead projections and PowerPoint resentations. They give only twodimensional glimpses to concepts that deserve 3-D explanations

So Beleb developed the Medicina Chemistry Virtual Library, a Webbased teaching tool designed to give more-detailed information to students at the University of Michigan's College

The site has lecture notes with an inactive component that allows students to move with just a click from a concept mentioned in one course to the in-depth eplanation that happened in another. Other features include tutorials giv-

en in Flash format and online practice quizzes that determine the question ce based on student answers. It also has libraries that detail the chemical structures of all clinically available drugs along with their generic and trade names, and links to sound bites

to correct pronunciation Beleh is adding virtual labs to the site so students can see what happens inside an experiment - som they can't always see in a real lab Beleb, who is a lecturer at the university and a pharmacist, started to work on the Medicinal Chemistry Virtual Library when he first arrived at the Uni-

versity of Michigan in 1999. He did much of the technical work himself And while Beleb relied on university developed tools, he says he frequently asked developers to modify the tools so they'd do what he wanted

Beleh plans to add material from classes beyond the four-course medicinal chemistry sequence. He also wants to develop modular applications so faculty members who aren't technically skilled can easily work with an interface to get their information online. And he wants to expand the concept beyond the University of Michigan, "I haven't seen anything close to this," he says, "so I think it would be a very use-

ful tool to others." O 54563

Science^{*}

International AIDS Vaccine Initiative Inc.

Critical AIDS vaccine information is

The Pan-African Resource Network connects 300 scientists, researchers and other clinicians at about a dozen sites in five African countries. Its goal is to increase the speed and efficiency of data sharing, which is essential in the search for an AIDS vaccine

"It definitely accelerates the search for an AIDS vaccine," says Ronaldo

Lima, senior director of IT at International Aids Vaccine Initiative Inc. (IAVI), a New York-based nonprofit organization IAVI operates as a bub for AIDS vac-

cine research and development. As part of its mission, the 9-year-old orga nization is implementing a reliable [] infrastructure to transmit clinical and laboratory data from multiple remote sites to centralized databa Lima says establishing this connec-

tivity in sub-Saharan Africa presents challenges that don't exist in developed countries. Existing computer networks aren't always reliable, the electricity supply can be undependable, and gov-

ernment regulations often slow the implementation of new technologies. The Pan-African Resource Network which dates back to 2002, has to contend with those issues and do so in a cost-effective way. Lima adds.

The solution involves the use of hybrid network systems that increase the reliability and cost-efficiency of longdistance data transmissions. [AV] workers consider the bandwidth, technology and service reliability in each region when deciding on systems. They goted for a radio link Internet connection in Rwanda, but they used a

satellite connection in Uganda. While Lima says this petwork can speed the development of an AIDS vaccine, he sees benefits well beyond that: "Even after we have an AIDS vaccine, all this capacity-building will help people have more access to informa

tion and knowledge." O 54584 Pract is a Computerworld contributing

writer in Woltham, Mass. Contact her at marykoratt@verizon.net.

Innovations by **InterSystems**

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calability on minimal hardware, and comes with upid application development environment. These innovations mean faster time-to-market, ower cost of operations, and higher application erformance. We back these claims with this erformance. We back these claims with this noney-back guarantee: Buy Cach for new pplication development, and for up to one year you an return your license for a full refund if you are mhappy for any reason. "
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Innovative integration. Guaranteed performance.



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TECHNOLOGY

SUPPLY CHAIN

Five years ago. Whirlpool

began an effort to turn around its global supply chain.

The company is seeing results, but it's not done yet.

By Gary H. Anthes THE SUPPLY CHAIN at Whirlpool

Corp. in 2000 was broken. Indeed, a ager there at the time quipped that among the four major appliance makers in the U.S., Whirlpool ranked fifth in delivery performance. "We had too much inventory, too little inventory, wrong inventory, right inventory/wrong place, any combination of those things," says J.B.

Hoyt, who was then supply chain project director. He says a sales vice president approached RFPORT him one day and said he'd accent even worse performance from supply systems if they would just be consistent rather than wildly bounc ing back and forth between good and

poor production and shipping plans. So in 2001, Benton Harbor, Mich. based Whirlpool embarked on a multiproject global overhaul of its supply chain systems. The metaproject remains a work in progress today, with a number of systems yet to be rolled out and some major technical

issues to be resolved. But managers at

Whirlpool say its success to date including huge improvements in customer service and reduced supply chain costs - is providing the psychological and financial impetus to drive

the remaining systems work. Whirlpool CIO Esat Sezer says that by 2000, the company had grown by acquisition and geographic expansion to the point that old systems, stitched together by spreadsheets and manual procedures, couldn't cope with the exploding complexity. "Our supply chain was becoming a competitive disadvantage for us," he says, Availability - the percentage of time a product is in the right place at the right time - was an

unacceptably low 83%, even as inventories remained too high overall The homegrown supply systems were primitive and not well integrated with the company's SAP ERP system. which had been installed in 1999, or with a legacy production scheduling system, Sezer says. And they weren't

integrated with the systems FIELD © of major wholesale customers or suppliers of parts and materials. "The plans we were creating weren't linking back into

reality," he says In particular, Sezer says, supply chain systems weren't fine-grained enough, nor were they very good at juggling priorities and constraints except through slow and cumbersome manual methods. Often, they would optimize locally - a single product line at one

location, for example -- but not for the supply chain as a whole. Here's what Whirlpool was using

for its North American supply chain in 2000: A homegrown production schedule ing system, the Whirlpool Manufactur-

ing Control System (WMCS), which was developed in the mid-1980s and extensively modified over the years. SAP AG's R/3 ERP system, which was installed in 1999 and used for trans action-processing applications such as accounting and order processing.

■ i2 Technologies Inc.'s Demand Planner (now called Demand Manager), which was installed in 1997 and used for demand forecasting.

A system for distribution planning that was custom-developed for Whirlpool in the 1980s that used optimization software from ILOG Inc. Then, in 2001. Whirlpool began to

mplement an advanced planning and

TRANSFORMATION TIMELINE



SAP's R/3 ERP systems

s: Cost savings and diffication of systems

is soar and costs fail.

trade partners Sears, Best 6 and Lowe's using an 12 Web col aboration tool. Demand forecasts improve dramatically.

Still to be Done

schedning (APS) system it included a suite of supply chain integration and Chain Planner for Master Schedoling Deployment Planning and Inventors Planning. Those three modules, the over 2000 and 2002

In and 2002, Whirlpool installed the (2) IradeMatrix Collaborative Planning For custing and Replemshment (CPIR) system a Web-based collabo-

ration tool for sharing and combining major trade partners - Sears, Rochuck and Co. Torac's Cos. and Best Buy Co.

The rollour of a component for Web based collaboration with suppliers. based on SAP's Inventory Collaborafrom Huly, is just getting under was And Whirlpool continues to use the old WARN for production scheduling but plans to replace that with SAP's Postuction Planning module

It's Available

By all accounts, the supply chain over had was a smushing success for the SIJ billion company CPFR out forecastone errors in halt. APS boosted availability in North America from 83% to 93% (it's at 92% today), reduced finished-roads incentories by more than 20% and trimmed % from freight and warehouse custs. Whirlpoul declined to discuss the cost of the protects

Managers at Whirlpool give much of the credit for the success of these projects to a close partnership between the IT department and the business units. Says Hoyt. "It was one of the first times the IT community didn't say, 'OK here's your tool. We said the tool had to do x, y and z. We did the requirements analysis tweether

Whirlpool considered standardsong completely on SAP for all ERP and supply chain systems in North America, but i2 ultimately got the nod for the APS system, the critical part needed to fix the company's availability and in ventors problems. There was a lot of back and forth but after a lone harangue and discussion of our busine

requirements, we settled on the 12 tool set in North America." Hoyt says But while (2 was seen as being more carable than SAP for handling the fine grained optimization, constraint-based planning and prioritization that the business units wanted it was far from ideal from an IT perspective. The APS system would cost IT, whose budget is about \$190 million, more than an all-SAP supply chain because there would be less integration, more systems inter-

Think Globally, Act Locally

WHEN THE TIME CAME for Wholpool Europe to overhaul its supply chain. The company decided not to go with (2 out) muration products, as North America buildone but with SAP's Advanced Planner and Optimizer (APO) for de-Vivel Mehta, a lead supply chain analyst involved in both mounts says

Europe was starting from a more prime two systems have with even more manual procedures and less-integrated systerrs than had been the case in North America So for Europe "APO was a huge step lorward," he says

The integration of Whirlpool Europe's supply chain systems around APO though not guite complete, has already boosted inventory availability from less than 80% to more than 90%, says Walter Manfred, supply chain director in Whirlpool's Comero, Italy, operations I from can be varied daily by altering system center

"Today, our supply chain is integrated processes and systems," he says Now, demand from a trade partner or customer is integrated into production planning. We can look into production

faces and more skills to maintain inhouse. Plus, IT was worried about i2's deteriorating financial condition. Whirlpool had already standardized on IBM AIX application servers and /Series mainframe database servers for supply chain systems and had put systems for all its global operations in a smele data center in Benton Harbor. New it was time to standardize on

So in 2001, a mandate came from the (10) in Whirlmool's Executive Comnames, that supply chain modernizatrons henceforth would be based entirely on SAP. In particular, new systems planned for Europe for 2003 and Latin America would use SAP's Advanced Planner and Ontonizer rather than the more capable but costly i2-based APS system used in North America, And they were to use SAP's NetWeaver for Web collaboration with suppliers and trade partners rather than North Ameract's TradeMatrix CPFR.

Vivek Alebra, a lead supply chain andog at Whirlood, was SAP moveatch up with 12 m its optimization capabilities, but in the meantime, i2's fluancial condition is worrisome. "There were 10 guys at i2 that we interacted with. and some of them are gone now," he says. "There's lack of continuity."

plans and see if this item for this date in this quantity is for this customer. So we can now ove priority depending on the type of demand

For example, he says priority is always given to production orders earmarked for specific customers - for which availabely is now 97% - over orders to symply replenish stock Still improvements need to be made especially at the level of individual lac-

Innes, Manised says, Some lactory managers, in an attempt to tweak systher opestions, make the systems so complex that they become mainlenance nichtmans: And, he adds, attempts by lactories to optimize their own performance can be all odds with colimizing the European supply chain overall. Finally, Manifect says, while produc-

náis and narameters, some production modifications are are workforce changes. or changes in line and equipment capacihes, which can take weeks to accom plish "That's very difficult," he notes. - Gary H Anthes

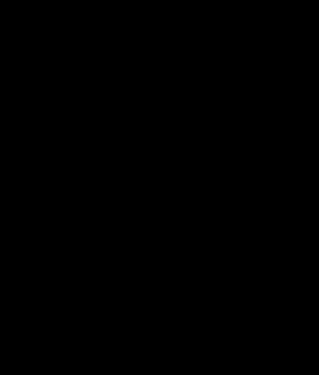
We have this challenge, where the IT organization is pushing for everything to be SAP but the business on the other hand, is going for whatever brings them value," Mehta says, "They are now used to the optimal plan, the high service levels, the lower inventories. So if we bring in something and say their availability will go down by a couple of

Sezer says Whirlpool will probably replace i2 with SAP "eventually" but is in no burry "We'd like to get the return out of that investment before making any platform decisions," he says. Sezer says that in the four years since Whirlpool standardized on IBM and SAP as "strategic partners," resenue has mereased on average SI billion per year and IT expenses have fallen 6% per year. He says there are several joint development projects under was involving all three companies.

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Mor for the time-being the combine tion of NAP and i2 works well for Whirlpool, für better than the legacy tools of a few years ago. Sezer says the company's supply chain is now a competitive advantage. "On a global scale, to be able to manage all your operating platforms, I'm not aware that any of our

competitors have that today," he says. O 54566



------TRANSFORMATION TIMELINE

scheduling (APS) system. It included a suite of supply chain integration and optimization tools from i2 - Supply Chain Planner for Master Scheduling Deployment Planning and Inventory Planning. Those three modules, the heart of Whirlpool's efforts to fix its supply chain, went live in three phases ower 2001 and 2002

In mid-2002. Whirlpool installed the i2 TradeMatrix Collaborative Planning. casting and Replenishment (CPFR) system, a Web-based collaboration tool far sharing and combining the sales forecasts of Whirlpool and its major trade partners - Sears, Roebuck and Co., Lowe's Cos. and Best Buy Co.

The rollout of a component for Web based collaboration with suppliers, based on SAP's Inventory Collaboration Hub, is just cetting under way. And Whirlpool continues to use the old WMCS for production scheduling but plans to replace that with SAP's Production Planning module.

It's Available

By all accounts, the supply chain overhaul was a smashing success for the \$13 billion company. CPFR cut forecasting errors in half. APS boosted availability in North America from 83% to 93% (it's at 97% today), reduced finished-goods inventories by more than 20% and trimmed 5% from freight and warehouse costs. Whirlpool declined tn cuss the cost of the projects

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der way involving all three companies. But for the time being, the combina-tion of SAP and i2 works well for Whirlood, far better than the legacy tools of a few years ago. Sezer says the company's supply chain is now a competitive advantage. "On a global scale, to be able to manage all your operating platforms, I'm not aware that any of our competitors have that today," he says.

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Inc. to somee, and it's selv to evoke f high-powered workms, dot-com servers and Java. But a peek inside Sun reveals a much broader array of emerging technologies and hints at a new Sun rising Sun Labs in Menlo Park Calif., employs some 200 scie tists and ensineers and spend seers and spends \$80 million to \$100 million a

year. Its projects include sensors, supercomputers, high-speed networking, optical intertechnologies, Java and more. Its mission: "To solve hard technical problems brought to us y our customers," says Glenn T. Edens, direc-

tor of Sun Labs. Making the Switch

For example, Internet switches capable of handling tens to hundreds of terabits of traffic per second today cost millions of dollars and fill entire rooms But if an ongoing project at Sun Labs is successful, such switches will have dimensions and price tags more like those of PCs. "It's a high-risk, highreturn project. We think it will work, but we don't actually know," Edens says.

Ultracheap, high-capacity switches are just one potential application of a technology

tion that Sun announced last fall. Preximity L/O, as it's also known, can enable processor chins to communicate 60 times faster and with 30 times less energy than is possible using

conventional means. "Proximity allows us to very nicely spread a switch out over a number of chips and have enough bandwidth berween them so we can have a distributed switch," says Robert Drost, a research sci entist at Sun Labs. "Proximity" refers to the positioning of two chips extremely close to each other, each with trans-

mitter and receiver circuits Data is sent across the gap by "capacitive coupling," which is coupling between

are at rest. It's simple in principle, but it's devilishly difficult to align the chips to tolerances of a few microps. In proximity I/O, the long communication paths on printed circuit boards with soldered connections and wires are replaced by the tiny, simple interchip gaps. "When processors went from 10 MHz to 3 GHz, they didn't become 30 times faster, because the bandwidth didn't increase by 30 times; it increased by two

or three times," Drost says. "Proximity I/O) will finally realize the potential perforce on the chip." In addition, he says, very



could reduce the need to have big on-chip caches, freeing up scarce chip real estate for other kinds of processing functions.

Supercomputers Last July, Sun won a three-

year, \$50 million contract from the Defense Advanced Research Projects Agency to design a supercomputer with ultrahigh internal bandwidth based on proximity I/O. IBM and Cray Inc. each won awards for designs based on different

Drost says the supercomputer will be "massively parallel," with hundreds of thousands of threads executing in parallel. It will excel at problems that require a lot of interprocessor communications, such as database searches, scientific simu lations and signal processing. If Sun wins approval to build a working machine in the next phase, one or more p could be installed by 2009. Drost says. Those machines would run at sustained speeds of 1 quadrillion floatingpoint operations per second (PFLOPS), about 15 times faster than the fastest supercomputer today, and be scal-

Sun Labs is working on computers at the other end of the spectrum as well, and it claims to have develgood the world's smallest secure Web server. Code-named Sizzle, the server is the size of a quarter and is intended to go inside home appli ances, personal medical devices, sensors and the like. It's a battery-powered, wireless device

able to APPLOPS.

with an eight-bit proci sor, 128KB of flash memory and 4KB of RAM. Others have built time Web servers, but what distinguishes Sizzle is its use of elliptic-curve cryp

tography (ECC), which is more efficient than RSA cryptoeraphy and hence more suitable for compute-challenged Users of the industry-

standard RSA have moved to 1,024-bit encryption keys and will eventually have to move to 2,048 bits to ensure that the keys aren't broken. Every doubling of key length requires an increase of computer power by a factor of eight. But ECC at comparable

ths is 10 times faster than L024-bit RSA keys and 38 times faster than 2.048-bit

ior engineer at Sun Labs. "The next generation of Internet devices, such as sensors. are expected to be even less capable than phones, and these devices just don't have the borsepower for RSA," be says. Gupta has worked with the Internet Engineering Task Force to get ECC integrated into the Secure Sockets Laver encryption protocol, just as RSA has been integrated with it. Now, he says, developers can write software that inter operates with Sizzle as easily as with any other secure server. Applications include battlefield sensors, personal medical devices and radio frequency identification tags for con-

fidential situations Gupta says ECC may find applications in large servers as well. A big e-commerce company such as Amazon.com Inc. could get by with a quarter to half as many servers if it used ECC rather than RSA, he says. Security isn't the

only thing Sun Labs is trying to get to work on tiny computers. Its

Project Epsilon is based on the belief that real applications of sensor networks are scarce because sensors commu nicate unreliably and are hard to configure and program.

"We are working on how to program these things," Edens says. "And we're working on radio protocols, because IP was developed

with no thought to power say ines, and we are working on how do you upgrade software if you have 10,000 of these." The sorwer to some of these questions is Java, Sun

says, Igya will bring interope ability and ease of code migration, says Randy Smith, a principal investigator at Sun. But it's not easy, he acknowledges The key is getting lava to run on bare metal - no operating system. "It's a shoehorning thing," Smith says. O 54178

NEW INDITE TO SPEED

The company's lab is working on a broad range of technologies, from coin-size Web servers to 4-PFLOPS supercomputers. By Gary H. Anthes

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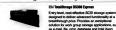
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One State (and the state of the

Things went downhill from

based on the advice found on-

line. My efforts ended in disas-

ter, and I had to rejostall the

entire system. Fortunately, it

went a lot quicker the second

time around, and I was able to

pinpoint small mistakes I had

made along the way the first

At long last, I could view

the IDS alerts via HTTP and

use Secure Shell to get into

the system remotely. At the

last minute. I realized that I

had only one network inter-

D'oh! You have to have two.

face card (NIC) in the system.

One NIC runs in promiscu-

IP address. Its job is to receive

traffic from the switch span

mote administration of the

switch management port. I

shut the system down, in-

system and is connected to a

scrambled around for a NIC.

stalled the card and brought

the system up again. Every-

Managers With Depth

I thought a lot about the role

manager while I was working

on the IDS. I've noticed that in

some companies, the security

te management skills

I have always believed that

manager isn't expected to

have technical depth, only

of the information security

thing worked.

time and correct them.

A DIY Project for Network Security

With sparse resources, our security managbooted using the rescue CD. er has to do things herself. But a call has her feeling like part of the team. By C.J. Kelly there, as I manually edited various configuration files

CHANGER'S

HE PAST few weeks have been frustrating and rewarding all at the same time. I had set a soal to configure an intrusiondetection system (IDS) using the de facto standard. Snort on Linux. In our environment, we have very little in the way of security tools and devices, and little or no budget to procure such items. This project was

the first step in being able to detect potentially malicious net-work traffic as inexpensively as possible.

Having never done this nemonally because I previously managed engineers who knew how, and currently having no security-savvy staff to rely on. I was both tentative and

I did several things to prepare. I found a white paper explaining the steps in detail. I figured that, if nothing else, I could follow directions. I also chased and read a book, The Tao of Network Security Monitorine: Beyond Intrusic Detection, by Richard Beitlich (Addison Wesley Professional

I also met with a friend and colleague, a CISSP and information security officer at a small company, who I knew had been running a similar system for many years. I tried to work my way through the Snort manual but then quickly put it aside as a reference for when I had the system configured and running.

Dumb Frantistions

The system is now in production and is producing volumes of data. The challenge is to an-

alvze this data and make sense There were so many small frustrations along the way that, at this point, I feel only

relief that it appears to be working. I had what I call "dumb" frustrations For instance, I had a hard time downloading the enor-

mous Red Hat Fedora Core 3 image files and burning those filer to CD in the proper format. After

numerous attempts and a dozen CDs that wouldn't boot. my colleague created a set of CDs for

me to use Once the Linux operating system was installed. I realized that I couldn't remember Linux bash commands, so I printed a cheat sheet. Fortunately, the vi text editor com-

mands came back to memory quickly. I followed the directions for installing the additional software needed for the system, step by step by step. then rebooted.

The system appeared to bang at a particular point, so I searched the Linux-newbie newsgroups for a solution. I never did find the exact solution, so I decided that I had

I have always elieved that technical

nagers need to have enough depth

pair of hands and eyes. That's a very tall order when you think about the array of security devices: virtual un the staff.

intrusion detection and prevention, antivirus, antispam and so on. In an ideal world, there would be sufficient eraffers with varied skills who could cross-train one another.

I am in a situation where there is no security expertise and very little network expertise. It's good news, bad news

On the one hand. I have days of frustration, knowing that the buck stops with me. On the other hand. I have days of pure fun while I hunt for solutions to network performance and security issues and implement them.

This past week was particularly good because I received a phone call from the information security officer of the department that my agency is a part of. I think his position is about three levels down from the governor's office, give or take a level. The officer wanted to earner my assistance for disaster recovery plans. He ous mode and doesn't have an also realized that as a CISSP.

port it's attached to. The addiwho is also a CISSP. tional NIC is necessary for re-Together, be proposed, we could create a security incident response team structure and find solutions to security problems within the state network, such as acceptable-use violations (i.e., surfing and

oading pornograp This was the first time I had heard that anyone in any state agency was actually looking to be proactive in regard to securing individual agency networks. I was excited to learn that years ago, they had gone down the same path that I'm on now and that they were bancy to share their experiences. I felt, at that moment, that maybe I do fit in here.

WHAT DO YOU THINK?

technical managers need to have enough depth to be able to back up the staff when a key employee has been lost or the situation demands an extra name and employer have been clique for obvious meaons. Contact her at mackedy@yahas.com, or join the dis-cussion in our forum: Quické.laik.att

tors, firewalls, routers and SECURITY LOG switches, access control and authentication mechanisms. I might be able to collaborate with one of his employees,

Meridian Launches Proliance for ILM

Meridian Systems in Febru

Oracle Announces

Financial Hub Tool Oracle Corp. last week rele ts Financial Consolidation Hot The product, which will be incl w, is built on a unified o um of 2,000 lice

AnnRiver Unveils

E-mail Service

says Dodel. About two years ago, Dodel heard

MARK WILLOUGHBY

The Operating System As Cult Classic

EGLECTED COMMUNITIES, be they small towns or virtual ecosystems, shrink and die in much the same way. Names and faces disappear, and real estate becomes empty.

In the physical world, over time, windows break, shingles tear off and loose items bang in the wind. Signs of atropby appear more quickly in the virtual world. Web site links return the dreaded "Page cannot he found* screen, and the information that can be found is out of date and has clearly been neglected.

OS/2 user groups in the U.S. know neglect. They are diehards championing a doomed technology and maintaining their lovalty even as the operating system recedes

from the IT landscape. Most of the remaining physical user groups, as opposed to virtual organizations, are in Europe, where OS/2 still

has a large presence, according to Mark Dodel, founding editor of the "VOICE Newsletter" (www.os2voice. org) for the OS/2 community A new cadre of younger OS/2 users

in Europe, particularly in Germany, has started a small OS/2 renaissance as an alternative to Microsoft. And Dodel reports a rumor that a great deal of development for the old ope ating system is going on in Russia and Fastern Furone

OS/2 users in North America tend to be older workers who learned to love the operating system when it was in business use. Most smaller OS/2 groups online have folded or morphed into multifaceted organizations en-compassing alternatives to Microsoft,

from a source in IBM that there were about 10 million OS/2 licenses under active support. Sun Microsystems sees gold in the stranded OS/2 community. which it numbers at 20 million users. The company has unweiled Project Mad Hatter to sell Linux desktops to OS/2 users. OS/2 aficionados have

been eathering annually in the U.S. since 1997 at Warpstock, a nickname for OS/2 that was borrowed from a Star Trek character. Europe quickly added its own

edition of Warpstock Warpstock's venue changes from year to year - the event has been staged near Los Angeles and in Chicago, Atlanta, Philadelphia, Toronto,

Austin, San Francisco and Denver so far - to make it more accessible. "Each event is bid on by a local team of volunteers," says Dodel. "The only IBM folks involved are doing so on

their own time." Attendance at Warpstock events in North America peaked at about 400 in 1998 in Chicago, Last year was the first time the event drew fewer than 100 attendees with significantly less participation from Europe than in the past, "Global politics isn't beloing." Dodel says.

This year's U.S. Warpstock will be held in October in Hershey, Pa. Europe is putting on a pair of Warpstocks, one next month in the Czech Republic and one in November in Dresden, Germany. Last year's Euro Warpstock attracted 150 attendees, with 56 coming from Germany and 53 hailing from the Netherlands.

OS/2 was widely used in banking. retail, telephony and manufacturing. Even today, many ATMs still use OS/2. as do some gas pumps and many industrial machines. "It's downright scary to think of something unreliable like any version of Windows doing these things," says Dodel. Like a hot rodder with a classic

Chevy. Dodel likes to talk about what's under OS/2's hood. "Ask just about any OS/2 user, past or present, what is ereat about OS/2, and most likely they will tell you the Workplace shell. It is a truly object-oriented desktop environment, and not a kludge like the Windows shell." And OS/2 has been immune to viruses, says Dodel, because OS/2 has no "mechanism for

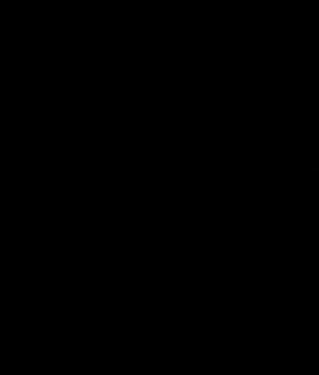
passing them on automatically." Despite all these virtues, the OS/2 clock is ticking. The "VOICE Newsletter" had almost 900 subscribers in 1999-2000, but that number has dropped off to about 750. And the IRS

has denied Warpstock Inc. nonprofit tax status because the event promotes a commercial product, even though IBM does "absolutely nothing" to officially support the product, according to Dodel. The most recent blow came when a vintage computer group told Dodel, who was planning an OS/2 museum for this year's Warpstock, that "OS/2 is too new to be considered

OS/2's savior could come from the East. Dodel says he has yet to speak with anyone from Lenovo but is anxious to start a dialogue about how OS/2 can liberate millions of PCs in Asia, O 54726

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Calif., announced Proliance 3.0 The Web-based information life ment software is designed to integrate facility and project management functionality and in built on a consideration architecture. XML technology orts a workflow engine in the nea that driver business cations, accordi idian. The product also in cludes a business intelligence lay er with key performance indica sends and rollup reporting. Pricing ranges from

\$1,500 to 2,500 per seat. Oracle Announces Financial Hub Tool

Oracle Corp. last week release The product, which will be included ed in Oracle's Corporate Perfe ce Management suite of ana lytic applications, is designed to te the financial con tion cycle, from data sub to the dissemination of consol ed results, according to the sarry. The hub, which is avail able now, is built on a unified enterprise data model that's used in all of Oracle's CPM application Pricing is \$50 per license with a mum of 2,000 licenses

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The Operating System As Cult Classic

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In the physical world.

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Introduction and Overview

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Julia King, Executive Editor, Events, Computerworld
8:25am to 8:55am Trends in Enterprise Analytics

nam to 8 ocum

Frends in Enterprise Analytics

Henry Morns, Vice President and General Manager,
integration, Development and Application Strategies, IDC

Case Study: Quaker Chemical Irving "Bubbs" Tyler, Vica President and CIO, Quaker Chemical

9:25am to 10:15am How Technology is Transforming
Business Intelligence
Keth Colley, SVP and Chief Technology Officer, SAS

Michael Tillema, Business Intelligence Strategist, Intell 10:15am to 10:45am Refreshment and Networking Break 10:45am to 11:15am Case Study: United States Census Bureau

Bake Sanders, Branch Chief of System Design and Support, Foreign Trade Division, United States Census Bureau Panel Discussion: From Gut Feel to Fect-Besed

Decisions: Real-Life Business, Political and Technology Lessons Learned on the Front Lines of Enterprise Analytics Moderator: July Ning Executive Editor, Events, Computerworld

Inverg "Bubba" Tyler, Vice President and Oli, Qualiter Chemical Blaire Sanders, Branch Chief of System Design and Support, Fortego Trade Design, Lind States Census Bureau -1-terry Morre, Vice President and General Manager, unsignation Development and Application Strategies. IDC -1-keith. Callins, SVP and Chief Technology Officer, SAS -1-thread Tilliems, Russness Intributiones Strategies, Lind Internal File President Strategies.

Program Concludes

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Voice and data teams just don't seem to mix well, and ClOs face a tough task in bringing them together to handle network convergence projects. Page 40



Think Tank

A management consultant suggests training IT staffers to solve their own problems instead of running to the manager's open door, and a new book describes one man's turnaround strategy for the "most unpopular organization in America." Page 42



OPINION Lenses on Leadership

Your view as an IT manager depends on which lens you're looking through, says Paul Glen. He offers some examples to help sharpen your vision. Page 45



The

WOW

IT is moving hotels into the 21st century. By Kathy Chin Leong

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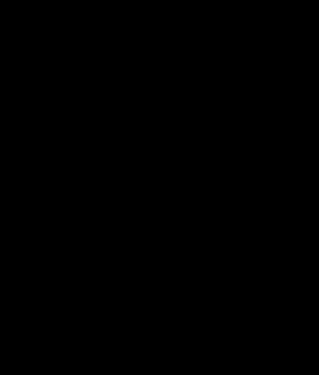
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MANAGEMENT

Oil and Water

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Lenses on Leadershir

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The

W-W

IT is moving hotels into the 2lst century. By Kathy Chin Leong HEN THE Mandarin Oriental in New York opened in November 2003, the flagship property had invest-

ed \$40,000 per guest room for technology services. "There is nothing that we don't have in those rooms," boasts Eric Cruz, IT director

rooms, Yoshon Eare CLLL; in uterous at the 250-room book.

He's right, There are flat-paned LCD elevisions in bedyoness and bath-elevisions in bedyoness and bath-elevisions in bedyoness and partners.

Powers and data communications, the room flats and printers, Xhoues and video games, desk-side multimentia panels to plug in digital cameras, PCA, Apple IPods, wireless high-poed laterare access, IVD and CD players, wireless keyboards to turn televisions into monitors and Bose dockring stations to amplify and Bose dockring stations to amplify

"What we have implemented will be the standard for all our new properties from now on," says Cruz. At the crux of the design is the blueprint for a fully integrated voice and data network that runs over IP.

blueprint for a fully integrated voice and data network that runs over IP. Hong Kong-based Mandarin Oriental International Ltd. expects the technology to last for the next eight to 10 years.

Hotels are moving into the 28st century, electrifying rooms with enough of a high-tech "wow" factor to keep guests coming back. With more than 5 million North Americans subscribing to Digital Subscriber Line service, hotel executives know they must offer computing and communications services on par with what guests use in their homes and offices.

In additional to guest-room enhancements, fundamental computing and networking changes are reshaping office operations in the \$16 billion U.S. hotel industry. Horels are chacking older systems in favor of Webbased applications that integrate data so employees can obtain a guest profile without looking up 30 different files across 30 applications, says Dong Rive, president of Hotel Technology Next temestation in Incorresses, III Nine hotel TF securities formed ITTNL in 2000 to encourage their peers, and vendors it work together to successfully privide hotel technology. Key players include Matrior International Inc., Global By art Corp, and Mandarin Directula.

"The problem in our industry is that there are so many fragmented buvers and suppliers." Rice says "A hotel can have as many as 50 different systems, and mone of them talks to each other."

The primary horel applications center includes property management, customer reservations, and call centersystems, he says. "When these systems are not connected, it's interface hell." And progress takes time: "It took, 30.

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their own Websenabled applications. Franchised brainly hope to break even as franchisees pay for contracted. If services, Hotels that own all of their properties see the enhancements as necessary to keep up with the competition and streamling costs.

Consolidating for Clout

Intrinsichused Eurmann Hoedes in Juliana intrough a intries vicin plan to overhaul its systems. Prior to this brandwade implementation, each Eurmann Hoede purchased its own hardware and software, with no common standards or inflience from the corporate IT department, says Vineet Gupta. Eurmann Hoedes (see prosident of INOs), the chain's consolidated approach means that it is till have more

buying short.

Frem see Gippa saye that with an annual rechnology budget of less than \$50 million. Fairmont plans to write men applications in Java. The new Web-based, integrated applications will save on mannenance and travel costs, since new updates will be available for domination of the property o

Elsewhere, Hilton's OnQ has become famous in hotel IT vireles. The Web-based, 590 million custom hardware and software platform was introduced in 2000 by Beverly Hills, Califbased Hilton and supports 2,280 U.S. Hilton properties.

OnQ includes 10 tightly wowen applications that support seven major business components, including distribution services, the call center, customer reservation management, the Borner loyalty property, inclusivement, and sales and marketing

Tike other large horeliers. Billion puss IT near the top of the organizational chart. Tim Harvey, the company's CIO, reports directly to CFO Steve Bolleabath. "Echnology is important crough to be recognized at that level."

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At Washington-bried Marriott, a three-no-five-year plan calls for re-comping the basel's networking technology, Barry Shuler, vice president of IT stratogy, and four bladeou, business technology vice president are executing the plan with a global IT staff of L200 full; and part-time workers.

Marriott's plan began with a video Smaler and Paladeou put together to show general managers, franchisees, owners, and construction teams the benefits of moving to a converged

"We have a tot of separate cables, buck-office local-area nectivity, loss of security networks. Shuler says. "We want a single network that will take care of everything using the IP postocol." Marriott intends to roll out fiberopis; cable that supports cell phone signaling, back, and front-office networking and W-FF radio. Marriott also plans to develop its own set of Wobbased applications to run its hotels. In the milieu of in-room amenities, technology is a given, notes Rec, "If you don't have Internet access, you're

in trouble," he says.
Still, dropping support for older technologies requires cars. For example, while WEFF is a must, basel, while WEFF is a must, basel, shouldn't user if of fabri netwon car, before the same and the same and

wired connections." Other technologies provide m room entertainment. This summer, Ratches to Chief technologies. This summer, Ratches the Chief technologies of the Chief technologies. The Chief technologies of the Chief technologies. The Chief technologies and the Chief which will be the Chief and the Chief t

More Bells and Whistles

In New York, a recent \$400,000 investment, including fiber-optic network and broadcast equipment, enables Mandarin Oriental to broadcast events

Mandarin Oriental to broadcast events worldwide via satellite. "We will be able to help a TV station

INSIDE The Room

AT THE BALTHOORE Marron. Naterives Hotel, exactly 27 room on the crisms do to crisms of high ech guest pack for the \$10 bills.

are the crisme de to crisme of regitech guest pack for the STD billion corporation. Starting neat month, patrons who stay there will be able to plug their leptops, iPods, wideo game systems, cancerdors or othor devices into a single four-plug connectivity genel.

It's not just an outlet, mind yo it's the JackPack, a panel with mouth enerts to linear which device is plugged where and roinformation to the room's stateof the ert, 32 in. flat panel, highdefinition televit ion from LB Electronics Inc.

When a guest connects a device to the JackFack, it registers the device and then displays as dow or the television to allow the guest to control the viewing, lister ing or playing experience.

it co-developed the Jacktelevision with LG Elecud will have exclusive use shoology for the rest two a hotel expects to roll out sets over the next four years at its full-service properties, says Berry Shuter, service vice preident of IT strategy.

According to Shuter, determining the needs of future guests is recentful for today's IT strategy.

Guest rooms are being trans-

trevelers can do "relating work," seps Lou Paladeau, vice president of business technology at Marriott Toward that end, noams in sereral Marriott hotels feature special task lighting, business desks with subletops that provi. engonomic

work chairs, and wired and wireless Web access. In the future, a guest may not even have to bring his laptop; he

may use his memory stick as a visited drive and load it into an interface on the television to do work, Paladeau says.



At the Hillon Garden Inn in El Segundo, Calif., five guest rooms are testiands for new technologies One feetings a thumbprint entry panel in less of a card-key reader, and a switch pad near the bed the allows the guest to centrally contion and window shades.
"Technology is great when y
filer something that gives peolessand surprise," says Hillon

> gives them the jollies most is g their customers smile." - Kethy Chin Leong

"No one else has anything like this." says Cruz. 'Direct-fiber broadcasting is a brand-new capability. FV crews can plug their cameras right into the infrastructure and air a conference from anywhere in the hotel -- even

one of the hotel rooms. Although the Mandarm hotel is a showcase for bells and whistles, FI managers agree that the point of technology services is to enhance

guests' stay, not overwhelm them. "We don't want you to think that technology is in your face "says Shuler, "but we want you to have it

there when you want it " Q 54548 Leong is a freelance writer in Sunnyvale.

Calif. Contact her at kehinleone a sbeglobal.net

The Room

SOME LARGE HOTELS are menting with quest-

focused technology outside the rooms, At Honokulu Airport, four touch-screen kooks in the becname areas are part of a Hilton priot project. The kipsk system. developed by IBM, enables travelers to use their credit cards to check into the Hilton Hawasan

Village Beach Resort & Spx, select rooms and obtain room keys on the spot. Marriott has related wireless check-in koosks that can be

placed anywhere as optional ating wreless technologies that will enable quests to check in remotely from their handhelds or cell phones.

Windham International has used IT to bre-tune its quest lovelty program. When guests 18 out Windham ByRequest forms online, the data is automatically recalled the next time they book a room at a World-

hom hotel

name also asks the quest to state his preferences regard and continue such as some large tron, bed size, music, wine, races marked materials and



The IT department has integrated the ByRoquest data. across Wyndham's reservabons, property management. sales and distribution systems so all areas have a complete customer record. When the guest is scheduled to check in. the system alerts hotel riseks that he prefers feather pillows and blue chardways in his room when he arrives. "We created this program

based on highly personalized service," says Mark Hedley. Wyndham's CIO, "We worked boldly with the saids, technology and marketing people to make the parrecelor So far, more than 2 million guests have joined the program - Kethy Chin Leono

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Rice, president of Hotel Technology Next Generation in Inverness, III. Nine hotel IT executives formed HTNG in 2003 to encourage their peers and vendors to work together to successfully provide hotel technology. Key players include Marriott Internaonal Inc., Global Hyatt Corp. and

Mandarin Oriental. "The problem in our industry is that there are so many fragmented buyers and suppliers," Rice says. "A botel can have as many as 50 different systems. and none of them talks to each other."

The primary hotel applications center includes property management, customer reservations and call center systems, he says. "When these systems are not connected, it's interface hell."

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No one knows exactly how much U.S. hotels spend on IT, but Rice cites estimates of \$25 billion worldwide for all computer, hardware, telephony, television and support costs. Global spending in the industry will probably increase about 5% this year, the same

as hotel growth, he says, Fortunately, hoteliers who are sayyy in technology and business see the big picture. They understand that operating older, nonintegrated systems is

inefficient and costly. Major brands such as Marriott, Hilton Hotels Corp. and Fairmont Hotels & Resorts Inc. are launching and imple-

menting initiatives to integrate their applications into a seamless whole, and some are purchasing or building their own Web-enabled applications. Franchised brands hope to break even as franchisees pay for contracted IT services. Hotels that own all of their properties see the enhancements as necessary to keep up with the compe-

tition and etreamline costs **Consolidating for Clout**

Toronto-based Fairmont Hotels is halfway through a three-year plan to overhaul its systems. Prior to this brandwide implementation, each Fairmont hotel nurchased its own hardware and software, with no common standards or influence from the corporate IT department, says Vineet Gupta, Fairmont Hotels' vice president of IT. Now, the chain's consolidated approach means that it will have more

buying clout. Even so, Gupta says that with an musi technology budget of less than \$50 million. Fairmont plans to write its own applications in Java. The new Web-based, integrated applications will save on maintenance and travel costs, since new updates will be avail-

able for downloading online. Elsewhere, Hilton's OnO has be come famous in botel IT circles. The Web-based, \$90 million custom hard-ware and software platform was intro-

duced in 2000 by Beverly Hills, Califbased Hiltoo and supports 2,250 U.S. Hiltoo properties.
OnQ includes 10 tightly woven ap

plications that support seven major business components, including distribution services, the call center, customer reservatioo management, the Honors loyalty program, property management, and sales and marketing

Like other large hoteliers, Hiltoo puts IT near the top of the organiza-tional chart. Tim Harvey, the company's CIO, reports directly to CEO Steve Bollenbach. "Technology is important enough to be recognized at that level."

Harvey says. At Washington-based Marriott, a three-to-five-year plan calls for revamping the hotel's networking technology. Barry Shuler, vice president of IT strategy, and Lou Paladeau, business technology vice president, are executing the plan with a global IT staff of 1,200 full- and part-time workers. Marriott's plan began with a video Shuler and Paladeou put together to show general managers, franchisees, owners and construction teams the

"We have a lot of separate cables back-office local-area networks, lots of security networks," Shuler says. "We want a single network that will take care of everything using the IP protocol." Marriott intends to roll out fiberoptic cable that supports cell phone signaling, back- and front-office networking and Wi-Fi radio. Marriott also

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plans to develop its own set of Webbased applications to run its hotels. In the milieu of in-room amenities, technology is a given, notes Rice. "If you don't have Internet access, you're

in trouble," be says. Still, dropping support for older technologies requires care. For example, while Wi-Fi is a must, botels shouldn't get rid of their in-room ca bling investments just yet, says Mark Hedley, CIO at Wyndham International Inc. in Dallas. Having both can come in handy. "Certain government agencies and pharmaceutical companies do oot want information going across Wi-Fi for security reasons," he explains. "Their employees have to use

Other technologies provide in-room entertainment. This symmer, Rancho Bernardo Inn in San Diego will feature Bose Wave high-fidelity radios from Framingham, Mass.-based Bose Corp., with MP3 support and Zvox all-in-one audio amplifiers from Swampscott. Mass-based Zvox Audio LLC, "People can bring in their iPods and use the Zvox," explains Issoo Durbin, business project coordinator. "The sound is just incredible. Having technology is a great sales tool for us."

Nore Bells and Whistles In New York, a recent \$400,000 invest-

ment, including fiber-optic octwork and broadcast equipment, enables Mandarin Oriental to broadcast events worldwide via satellite.

"We will be able to help a TV station

or company set up an event and send it on a live satellite feed within an hour," Cruz says. "We already have the cabling." Today, event promoters typically require days to get city permits for temporary cabling and set it up.

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_____ HEN Craig Hinkley at Bank of America Corp. in Charlotte. N.C., first brought voice and data ers together for a three-year VoIP

project that would affect 180,000 users, the room divided, and "the voice and data guys set up castles and started lobbing grenades," says the senior vice president of network architecture.

As more companies start down the winding road to converging voice and data communications, it's ironic that the first obstacle they hit isn't a technical hurdle but a human one. That's because conversed network projects work best when companies get voice eers under the same management obrella as the data team, which means the CIO takes charge of the

voice side of the corporation. Sounds easy enough, even logical. You simply convene a campfire in a rustic setting and have the voice and data teams sit together singing

"Kumbova" right? Not exactly, say some IT managers who have been through the process and lived to talk about it. The fact is, ocause the separation of the two teams is so ingrained in tradition, the CIO's attempt to don the chief tele-phony officer's hat is fraught with corporate politics.

And because voice and data peop don't usually work together, they tend to have different work styles and permalities. One observer compares the differences between the two team e between Animal House-type

clubbers in sedans. Despite these differences, bringing the two workforces together is essential to successful convergence projects. analysts and IT managers say. And as time goes on, more companies will be

fraternity members and dormitory residents, with the former setting up messy data-switching closets while the latter tend well-organized voice switching closets. The data folks might be stereotyped as rebels on hot rods. while the voice workers are country-

dealine with the issue as they update their aging circuit-switched phone systems and increasingly opt for an IP converged network to support applications that mix voice with traditional data applications such as e-mail.

Recognizing Differences A good start to achieving harmony is

understanding the two groups' very different perspectives. Data workers tend to focus oo data availability and reliability, not the millisecond time delays that annoy voice users, says Clay Swenson, a VoIP project manager at GlavoSmithKline PLC in Durham. N.C., where a pilot convergence project is under way.

For their part, voice personnel understand the need to eliminate that millisecond delay, but they have to adjust to makine voice "just another application" in a data network with voice over IP. according to Swenson. At many companies, voice teams have been traditionally

lumped under the facilities group in the organizational chart and charged with maintaining the copy machines as well as the phones, Swenson says. The data teams, on the other hand, work for the CIO and have been rulers of the server domain, operating in a world

less in tune with immediate user For example, when a voice circuit

goes down, users are instantly up in arms, but when a data system goes down, it may take a while to affect their work, so they may not immediately notice.

To neutralize these differences, the pharmaceutical giant set up virtual teams of voice and data workers that will collaborate at least until VoIP is rolled out slobally throughout the organization.

At Bank of America, Hinkley says be al distrust" of each other, with voice workers tending to be older than those in the data group and each being accustomed to different ways of getting

things done. That's why Bank of America started bringing the groups together slowly with meetings and top-level discussions of what skills were needed for the VoIP project. Bank of America has relied

on a structure that happens to be similar to what analysts at Gartner Inc. recommend. The bank separates VoIP infrom VoIP application services teams, and each group includes people with both

data and voice skills. In addition, each of those teams needs to operate with a security team. Hinkley says. The model at Bank of America belps define the roles of voice and data engi

neers, he says, "which helps both camps realize that each has responsihilities to make sure the IP envir ment is successful." Hinkley also advises engaging in

cross-training. "If I were a traditional voice engineer, I'd be cross-pollinating my skill set with IT practices and understanding of data network components," he says.

That doesn't mean that voice eng neers need to become network design engineers, he adds, but they should understand the key components of data networking. As for data engineers, they need to

understand the importance of realtime communications and its effect on network design, since VoIP arguably provides the first test of using data networks to meet the needs of realtime communications with voice. Hinkley says.

Torf leases

Experienced managers also advocate throwing the voice and data groups together more than they're used to, whether through meetings and other a gatherings or even by moving their

------Key Jobs

To ensure a successful VolP no convergence rolicul, Gartner advises rations to merge their exi voice teams with other IT functions Here are the key job groups Gartne clude, as well as some of their duties:

III VOICE RPECIALISTS. These work ers tend to come from the telecommuons memorer ranks and have s in the company, as wall as I and regional differences in

S. This group recognit the host of applications supported ign architects. It identifies spec efined by voice speci enitry of service

SECURITY SPECIALISTS. Men of this group need to work with voic alists as actively as they ork with data networks shones, which are n endpoints, must ultimatel

cubicles closer together. That's sound advice, according to lanet Smith, a consultant at lanet Smith & Associates in Chapel Hill, N.C. Smith combined the voice and data teams at an academic medical center where she worked in a prior job. but she found that it wasn't easy to get the two groups to play nicely together. "It's a very difficult nut to crack," she

The telecom workers sense that they almost always lose in these convergence situations, and the telecom team is not easer to give up its territory," Smith says. And because the CIO is often from the data tradition, he may have difficulty valuing telecommunications workers and their experience in dealing with people as opposed to technology, Smith adds. It helps if the CIO recognizes that difference and addresses it with both groups.

Even if you don't have an IP telephony project in the works. Smith advocates merging the voice and data



teams. And that doesn't mean just changing the organizational chart so that telecommunications reports to the CIO, she adds. Voice and data staffers need to work alongside one another in the same work space, with the integrated teams focused on three areas: infrastructure, applications and customerfacing functions.

But before merging the teams, companies need to have common procedures and methods in place for both groups to handle job orders (such as a phone for a new employee), as well as change and problem management. inventory tracking and asset management. Some of these processes are standardized in systems management

software packages. If convergence is really working, Smith adds, your company has a single number for users to call for help, whether the problem is with a PC, a phone or other technology, such as a workgroup copier.

Smith's advice is mirrored by other

analysts, including those at Gartner. who recently urged in a report that CIOs mente their voice teams with other key IT functions. Gartner compared VoIP to CRM initiatives, which require cross-business cooperation to be effective. It said that if telephony isn't the responsibility of those planning the network infrastructure needed for real-time communications, a company will be unable to maximize the benefits of new technologies. VoIP convergence might require companies to retrain or recruit work-

ers with new skills in order to build a communications team with voice specialists, network designers and managers, and security specialists, the report says (see box, page 40). The IP telephony decision needs

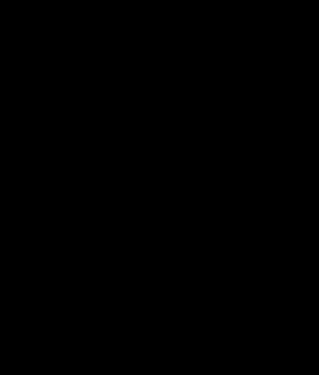
executive sponsorship due mainly to political issues, and the three teams must cooperate," says Lawrence Orans, one of the authors of the Gartner report. "Otherwise, the project will be doomed." @ 54571

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The Problem with Open-Door Policies

can't get any work done. Plus, an se to you with all of their problems

m Fonter, a Fort Laudordale, Fla.

og.org), has identified a "On the well hebind the maked chair o wing phrase: What are you going to do about that?" Foster says. "The next



you would solve for them, try this reconse: "That's curious - what are you no to do about that?" 100 000 democal and employees, antiquated tech-

It may sound harsh, but manager should be building a team that can come

up with solutions, he says.
"One of my clients printed up a small pad of paper that he kept on the corner of his desk. Whenever a team of arrived with a problem, he ripped off the too sheet and sent them to the corder ence room for 10 minutes." Foster says

Here's what the sheet said: What do you think is causing the problem?

Name three solutions that might solve the problem.

Which is the best solution that might solve the root caus of the problem?

The result is that staffers come to vo with solutions instead of prob

Best Bits

The most useful parts of recent business and IT management books

Many Unhappy Returns

One Man's Quest to Torn Around the ice by Charles O Ressott (Harverd Charles O Bosses Business School Press, 2005)

nology (a core system dates back to 1962) and arm arraned. It didn't help that the IRS presionally had wasted \$4 billion on a botched IT overhaul It seemed like an impossible turnaround job, but Ressett left the IRS a better place in 2002 and in this book, offers hand-won lessons for managing successful change.

Things to Ponder

The No. 1 problem with database marketing rsn't technology-related it's the tack of sufficient staff to analyze all the data according to a Forester Research Inc. survey of 124 U.S. retail marketers.

Twenty-six percent of online house are getting e-statements from their financial providers, says another Forester report. The only problem is that 97% of e-statement adopters continue to receive a paper statement," the secont sws. because consumers want the paper for these records and don't see a compelling reason to give tup. Tims must wear customers from their addiction to paper by offering a printable statement in

PDF torrise automatically turning off paper state ments for e-statement adopters and charging cusforcers who request a paper statement via soul mai," the report concludes. @ 54577

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The IT Econom

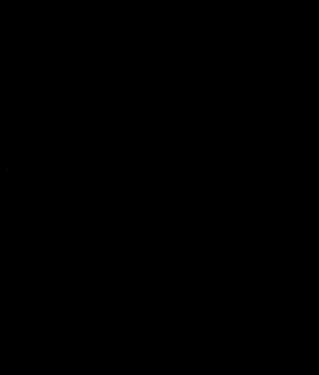


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his first day as commissioner of the internal Revenue Service in 1997 he thought it would be nice to send an introductory e-mail to all IRS employees. The staff just smiled. There was no RS e-mai systern. Topuld send an e-mail to others in my Washmotion office, but all of the other offices had their rown evenal systems, or hard pome at all "he arcalls. Rossott- the first businessman and technologist

You think you've got problems. On Charles Rossot-

in lead the IRS describes his efforts to reform an agency that manages a \$2 tolion tax system with



BRAIN FOOD FOR IT EXECUTIVES

The Problem with Open-Door Polici

IS IDEA



1. What do you think to coming the problem?

2. Have three solutions that solght solve the problem.

3. Which is the heat solution that might solve the rec-of the problem?

Best Bits

The most useful parts of recent business THE BOOK: Many

Unhappy Returns

nhappy Roturns: no Man's Quest to ce by Char Press, 2006).

You think you've got problems. On Charles Roseot-ti's first day as commissioner of the Internal Rev-enue Service in 1997, he thought it would be sice to send an introductory e-mail to all IRS employees. The staff aut amind There was no IRS e-mail pertern. Tocald send an e-mail to others in my Wash ton office, but all of the other offices had their own e-mail systems, or had none at all," he recalls.
Rossolf, the first businessmen and technologie
to lead the PS, describes his efforts to reform an
agency that manages a \$2 trillion tax system with

100,000 demoralized employees, antiquated tech rology (a core system dates back to 1962) and zero respect. It didn't help that the PS previously had wasted \$4 billion on a botched IT overhaul. It seemed like an impossible turneround job, but Rossotti left the IRS a better place in 2002 and, in this book, offers hard-won lessons for managing successful chance.

- Mitch Rette

Things to Ponder

* The No. 1 problem with database marketic isn't technology related; it's the lack of sufficient staff to analyze all the data, according to a Formal Research Inc. survey of 124 U.S. retail marketers.

" Twenty-six percent of online househ are getting e-statements from their financial pro-viders, says another Formeter report. The only problem is that 97% of e-statement adoptins con tinue to receive a paper statement. The report says, because consumers went the paper for their records and don't see a compelling reason to give it up. "Firms must ween customers from their ad-diction to paper by offering a printable statement in

PDF formal, automatically luming off paper state-ments for e-statement adopters and changing customers who request a paper sh mail," the report concludes. © \$4577



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and Peter Weill from the Cen-

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pliance. Case studies and workshops will be presented.

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II ExCel Event Center, June 22-23 Spensor: AMR Research Inc. The European PLM Summ oo product life-cycle management will include automotive, consumer goods, electronics and life sciences tracks. Topics include managing product data in a dynamic marketplace, enabling seamless product creation through PLM. driving ROL developing and clude Nicholas Negroponte from MIT's Media Lab; Jeremy merging product data management environments, and com-Rifkin from the Foundation on

European IT Forum II Le Meriden Montp Sept. 26-27

Sooner: IDC The Business-Oricoted IT Agenda: IT Innovation and Business Transformatioo conference will focus on how CEOs. CIOs and top business executives can use IT innovatively to transform business processes and business models by learning from and interacting with the leading influencers and practitioners in this area. Presenters will in-

Economic Trends: Lester

Thurow, professor of manage-

ment and economics at MIT's

ter for Information Systems Research at the Sloan School of Management, www.idc.com II The Ritz-Carlton Millenia Hetal June 28-20

uar: The Conference Board The 2005 Asia-Pacific Leadership Development Conference: Defining Capability, Developing Competence and Delivering Performance will include topics such as setting the standard for global leadership, a global report on the leadership pipeline, strategic partners in the change proc-

ess, developing and aligning

leadership competencies and

skills, cost-effective development, developing global leadership talent in Asia, strengthening leadership capacity, and new directions and future developments, www.conferenceboard.org

Outpourcing # Hotel Gree Melia WTC June 28-29

The Second Annual Gartner Outsourcing Summit will include topics such as new fundamentals of successful sourcing, ootimizing management in a multisourced environment, assessing options in IT infrastructure outsourcins measuring the total cost of sourcing, understanding business-process outsourcing risks and choices, performance measures and trends, best

practices for minimizing and mitigating risk in outsourcine. evaluating service providers, future accourtos for outsourcing and next-seneration contracts. www.gurtner.com

Catalyst Europe # Hitten Munich Park, Nev. 2-4 coner: Burton Group

Conference topics will include service-oriented architecture and the Web services framework; digital identity and the tools necessary to manage it: deployment and scaling issues; and progress toward widely accepted identity, privacy, federation and trust standards. The forum will also cover how to build and deploy a scalable, intelligent infrastructure; advanced networking techniques; and security, www burtongroup.com © 54552

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too, that because companies require IT are pleying a larger rate in an IT candi-

etegic thinking and interpersonal Ms in today's IT pros? How are they ng this need? Of course, broadpart of a four-year outloulum at most unrubes. But increasingly, administrators

systems related programs are recognizing d addressing the need for nontechnical skills development. They're beginning to expend their programs to include a more well-rounded curriculum, including instruc tion in areas such as business, finance

heart of ones and zeros? Opportunities will remain for purely technical profession-als, but the workplace is increasingly team-

onented. If you can't work well with others. your options can be limited. Keep in mind. staff to take a more strategic and collabo rative accorded than in the cast, soft skills date's marketability and are irrequently a deciding factor when evaluating two indand with otherwise equal qualifications

of computer science- and information

What is surprising, however, is that many companies are not offenns this kind aining to their own IT staff. In a recent survey commissioned by our company, rly half - 47% - of 1,400 CIOs polled said their companies do not provide IT prolessionals with instruction in business and

faced with an immediate need for technol ogy expertise and limited budgets for progers may perceive soft skills as less critical, they're missing out on an opportu-nity to enhance the team's productivity as Will there soon be no place left for the nily to enhance the team's productivity as hard-core tectio with antisocial ter-dencian - the storeotypical coder with a ng everyday challenges. Or 54344 -----

2%c Position specification

are too rigid

Succession Failures

No formal evaluation process 3%: No bay in from the board of directors

TECH EMPLOYMENT RISES

nce on technology to support and drive business, the role of the IT profe al has become much more prominent. You are now frequently looked to for strategic nce and one-to-one support. If a common today, for example, for those in IT to particular sort of upgrade or hardware pur chase, and this requires excellent commun skills, the power of persuesion and rental understanding of the firm's

and for years that soft skills

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ng a larger role in an IT candidate's sional development and advancet loday than at any time in the past.

s needs. As a result, soft skills are

EXEC TRACK

Prudential Names Susskind CIO

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Sara Lee Appoints Chappelle as CIO

Sera Lee Corp. In Chicago ancounced the appointment of GEORGE CHAPPELLE to the new position of CIO. He will report to the chief financial and administrative officer. Chappels provicestly was CIO at H.J. Heiter Co. Prior to that, be held a variety of management positions at ABS

Evans to Lead IT At Jobing.com

Phoenix-based Johing.com LLC, a locally focused employment Web site, announced the appoint ment of AMP DEWES on CIO. Evens proviously served as vice president of product at information Technology Teolites inc. and director of marketing develop-

Cameron is COO At VantageMed VertageMed Corp., a maker of

health care software in Ranch Cordova, Calif., has premoted CIO MARK CAMEROR to chief operating officer. Prior to joint Vantagabled, Cameron was a nior vice president of product valegament at Beach Street Co and vice president of producti PAUL GLEN

Lenses on Leadership

EFORE THE DAYS OF PHOTOSHOP, it was common to say that photographs don't less. But year, and year, year,

Managers use meetal lenses and filters for many of the same reasons. They look at the world through them to color forts, high-light some more than others and bring some subjects into sharp focus while blurring others. A manager's picture of reality lies and tells the truth all at ourse the content to extend the same subject to the same subject

once too.

In fact, most of us learn
to use one filter quite welk
we call it our point of view.
After first joining the workforce, we typically try out a
few viewpoints, figuring
out which ones bring useful insights, praise and capreserve researd. Eventually, we-

no insigns, prace and carreer rewards. Eventually, we settle on the one that seems to work best and start to use it almost exclusively. Before long, we forget that there ever were other perspectives at all.

This isn't such a bad thing. Filters help us make sense of the complexity of daily life. They simplify the confusion and help us to make meaning of the disparate facts and feelings that rejentlessly assault us.

But as our responsibilities expand and we change jobs and take on supervisory, managerial and leadership roles, it becomes easy to keep using the same old perspectives that have served us so well in the past. Unless we examine the lessons we learned as

junior programmers, we continue to apply them to the responsibilities now confronting us as CIOs. That doesn't always work so well.

Tve noticed that for IT managers, there are s few lenses that tend to be

common.
The accountant's green eyeshade. Through the green shade, every question looks like a budget issue. Schedule problems are primarily viewed as budget problems. Quality is seen only dimly, and human resource concerns are barely visible at all.

The conductor's water. Through the conductor's lens, every issue looks like a schedule challenge. For the conductor, time is a constant, urgent threat. If we're ahead of or just on schedule, we're OK, but anything that comes upcan knock us off the precious and un-

The mopul's architect. For the Trump in training, all things look like confirms to not for the training, all things look like confirms to not for the training and training and training to the training training to the mopul. Through this lens, human relationships are highlighted, since power is exercised only on other, and recolor are severated into

forgiving timetable

opposing camps of friends and enemics. Budgets are symbols of power,

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battle strategy, and the opportunity to serve is the great honor of the staff. The manager is the loyal samurai, faithfully serving his master. Managers are most effective when

 Know which lenses come naturally to them.

2. Can recognize when others are looking through different lenses.
3. Can adopt whichever lens is most informative and useful at a given moment. Leaders with flexible perspectives are able to adjust to reality rather

than trying to adjust reality themselves. The manager or photographer who is willing to use only one lens filters out the complexity of reality and limits his effectiveness. © 54348

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We've heard for years that soft skills are of increasing emportance to IT professionals. Is this an accelerating

treed? With companies increasing or lance on technology to support and drive they business, the role of the IT profession all has become much more prominent. You are now frequently looked to for strategic guidance and one-to-one support. It's commen today for example, for those in IT to he asked to make a case for or analyst a particular sort of upgrade or hardware purchase and this requires excellent communication skills, the power of persuasion and a fundamental understanding of the fem's business needs. As a result, soft skills are playing a larger role in an IT candidate's professional development and advancement today than at any time in the nast

Will there soon be no place left for the hard-core techie with antisocial tendencies - the stereotypical coder with a | moneyorday challenges O 54344

heart of ones and zeros? Opportunities will erman for everty technical profession als but the workglace is noreasingly fearn enested if you can't work well with others. your options can be irrefed. Keep in mind Igo that because companies require iT staff to take a more strategic and collabo rative approach than in the past, soft skills are playing allerger role in an IT candidate's marketability and are frequently a deciding factor when evolutions two indiwhat with otherwise equal publications

Are schools recognizing the need for strategic thinking and interpersonal skills in today's IT pros? How are they meeting this need? Of course broad versities But increasingly administrators of computer science- and eformation systems related programs are recognizing skills development. They re beginning to expand their programs to include a more well-counter/curroulum including instruction in areas such as busitess. finance

and marketing What is surresing however is that many companies are not offering this kind. of training to their own IT stalf. In a recent survey corresponed by our company ready ball - 47% - of 1400 CIOs rolled lessonais with instruction in business and communication fundamentals. Many firms faced with an immediate need for technol ogy expertise and lended budgets for prolessional development opt to support technical training instead. While these managers may perceive soft skills as less. critical, they're missing out on an opportunity to enhance the team's productivity as well as their ability to collaborate on solv-

FIRST THERE WAS outsourcing, with | The proposal has drawn fire from companies giving up some of the work they own IT shoos had performed to domestic service providers. Then came offshanna, in which work was outsourced to detact low-wave places like India. Coming next. Well, you could call d offshore offshoring, a business plan that involves using software engineers who aren't ashore when they work.

SeaCode Inc. is a San Diego-based company that plans to put as many as 600 developers, mostly from countries. such as India aboard a cruse ship moored in international waters off the coast of California and linked to the mainland by a T3 line. The company's principals say they won't provide the cheapest development work, since they plan to pay two to three times the going rate for foreign (T talent, instead, they will offer services at a lower cost than can be found in the U.S. and in a more convenient location than Asia for most companies, better enabling them to stay in contact with the people doing the coding

several directors, with one publicabon dubbing the floating operation a "sweatship" and less-colorful commentators settling for "inhumane" Michael Hitzik in the Los Anonies Times recalled the ficuting prison bulks that housed the convict Abel Magwitch in Great Expectations But Hittzik ends up taking a more

sanguine view, noting that the developers will be well paid relative to the standants of their homelands, that they will be at sea for four months and than he oven bee months off at home with airfare paid by SeaCode, and that they will presumably be able to take shore leave on the U.S. mainland, if their paperwork IS IN ORDER Still, this idea isn't likely to play well

among people who already take a rist. yew of the affsharing trend. One internet posting even speculated that the step's proximity to Los Angeles could make if a tempting target for ancry laid off developers.

- Jame Eckle

Succession Failures

of its consultants what they believe is the most common on-planning mistake that organizations make

No formal evaluation process Lack of preparation 50% Subject volvin selection internal cardidates 17% 3%: No buy-in from **NOTE:** Does not add up to 2%c Position specifications 100% pecause of counding

TECH EMPLOYMENT RISES

EXEC TRACK Prudential Names

Susskind CIO Prudential Financial Inc. in

Newark, N.J. amounced that FMILY SUSSKIND has been anpointed CIO of its international division. She will be responsible for the strategic direction of IT in Prudential's insurance and invest ments operations. Prior to joining Prudential Susskind was executive vice president at Sony Corp. She was also previously a senio vice president at Dow Jones Markets and Tele-TV Systems and held a series of positions at Salomen Brothers Inc., including director of global networking.

Sara Lee Appoints Chappelle as CIO

Sara Lee Corp. in Chicago announced the appointment of GEORGE CHAPPELLE to the new position of CIO. He will report to the chief financial and administrative officer. Chappelle previ costy was CIO at H.J. Heinz Co Prior to that, he held a variety of management positions at ABB Group and The Gillette Co.

Evans to Lead IT At Jobing.com Phoenix-based Johing.com LLC.

a locally focused employment ent of DAVID EWAYS as CIO ously served as vice dent of product at informa tion Technology Toolbox Inc. and ent at Condant Corp.

Cameron Is COO At VantageMed

eliled Corp., a maker of h care software in Rar ve. Calif., has prore CIO MARK CAMERON to chie ting officer. Prior to join And, Cameron was a se ent at Beach Street Core

Lenses on Leadership

EFORE THE DAYS OF PHOTOSHOP, it was common to say that photographs don't lie. But even way back when, during the dark ages of chemical film, photographers used different lenses and filters to change colors. highlight some details over others and bring some subjects into sharp focus while blurring others. Pictures lie and tell the truth all at once.

Managers use mental lenses and filters for many of the same reasons. They look at the world through them to color facts, buchlight some more than others and bring same subjects into sharp focus while blurring others. A manager's picture of reality hes and tells the treah all or

other too In fact, most of us learn to use one filter quite well. we call it our point of view After first joining the work

force, we typically try out a few viewpoints, fleuring out which ones bring useful insights, praise and career rewards. Eventually, we settle on the one that seems to work best and start to use it almost exclusively: Before long, we forget that there ever were other perspectives at all

This isn't such a bad thing. Filters help us make sense of the complexity of daily life. They simplify the confusion and help us to make meaning of the disparate facts and feelings that

relentlessly assault us. But as our responsibilities expand and we change jobs and take on supervisory, managerial and leadership roles, it becomes easy to keep using the same old perspectives that have served us so well in the past. Unless we examine the lessons we learned as

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out the complexity of reality and lim us his effectiveness. O 54348

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"It would be a hard sell," said
Sam Loyd, a senior database
and systems administrator at

Ar would be a nairo sell, said Sam Loyd, a senior dastbose and systems administrator at McKee Foods Corp. The Collegedals, Tenn.-based maker of Little Debbis mancks and other products is testing Oracle Corp.'s dashbase software on Linux servers. But Loyd said the company is unlikely to try Red Hat's directory software.

Red Hat's directory software.

McKee undertook 'a huge
project' to deploy Microsoft
Corp.'s Active Directory, Loyd
said, adding that it would be
difficult to get the IT staff 'excited about something else."

Even though Linux use is "exploding" at The Scripps Research Institute as it invests in \$2,000 Linux boxes instead of \$15,000 Unix servers, the momentum probably won't carry over to Red Hat Directory Server, according to Michael Yavno, a systems administraor at the La folls. Calif-based

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For its plunge into the directory server market, Red Hat
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gestions that Red Hat bought the Netscape technology because it needed a product that could compete with Linux rival Nowell Inc.'s more widely used directory and identity management software. He said Red Hat had been tracking the directory server market as a potential business oncontunity

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Earl Perkins, an analyst at Gartner Inc., said Red Hat's chances of success will largely depend on how quickly it makes Directory Server available as a full-featured directory that's commatible with the

Lightweight Directory Access Protocol — something Novell hasn't done yet. "If Novell responds properly to the challenge, I rate Red Hat's chance of success here as marginal," be said.

be said. Meanwhile, James Mularadelis, a senior Unix engineer at Bristol-Myers Squibb Co. in New York, said be harbors concerns that Red Har's directory efforts 'could waste a lot of resources' that might be better spent on its core operating system. You don't want them to choke by biting off directory,' he said. © \$400°.

in software markets where vendors such as IBM and Continued from page I Servers

operating system business. But, be added, it will be hard

for the company to move "up the stack" and compete

Insurance Co, which has had an eight-way version in its data center for the past two weeks. One of the reasons St. Paul is turning to a denser and more space-efficient system is the amount of data center room taken up by the smaller duce our total real estate," said Barlow, who also believes that ore scaled-up servers like IBM's will be less expensive to manage and provide increased virtualization capabilities. Insufficient space in data centers topped the list of longterm concerns cited by IT managers who responded to a recent survey conducted jointly by Concord, Mass,-based InterUnity Group Inc. and AFCOM, an Orange, Calif. based association of data center professionals. Nearly 40% of the 161 respondents said they expect space constrain to become one of their biggest

fore chart).

The greatest immediate concern cited in the survey, which was released in April, was power and cooling requirements. That's no surprise to Sevan Lewis, director of enterprise planning at BMO Financial Group, a financial services organization that includes Bank of Montreal and Montreal and

issues in the next two years

its subsidiaries.
"The space issue is a relatively cheap one to sort out," he said. "Building a raw shell inn't where the real cost impact is. Power and cooling is a far more prevalent issue." Building a data center shell costs about \$220 (U.S.) per square foot, Lewis calculated. A fully loaded rack of blade servers may take up only about 30 square feet of space but can coassume 12 kilowatts of power at a cost of \$250,000 annually, he noted. "The physical footorint for the

footprint for the core building is costing you a very small fraction of what it is going to cost you longer term," he said.

But Jim Pulacch, vice president and data center security for the IT division at Cincinnati-based Catholic Healthcare Partners (CHP), said he believes he must continue to move to denser server technology because of the physical limitations of his Youngstown, Ohio, data center.

Youngstown, Ohio, data center CHP, which operates more than 100 health care facilities and programs in various states recently consolidated 10 data centers into two buildings. The Youngstown facility that Yukech manages takes up 20,000 equare feet, with 7,000 square feet of raised floor

The Youngatown facility that Yudoch manages takes up 20,000 square feet, with 7000 square feet of raised floor spoce. Expanding the data center in the crowded urban area where it is located would be very difficult, be said. Yudoch hopes to avoid the need for expansion by refresh-

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ing his hardware every five years and bringing in physically smaller systems, such as racks of blades.

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For instance, CHP is in the process of removing an old VAX system that dates to 1969 which will free up space for nine blades.

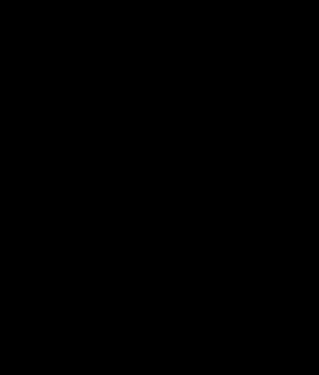
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Yukech said.
There are other reasons why users may want to move to denser and more scaled-up systems, including the opportunity to get improved virtualization and systems minagement features, said Jean Bontann, an analyst at market re-

search firm IDC

But many IT managers will have trouble putting in denser servers, said Funce Edwards, president of COG Facilities Integration Inc., a data center consultancy in Baltimore. "I see them struggling with what they want to buy (versus) what they can accommodate in their physical data center from a power and cooling persective." In said, 40, 54627.



Tou don't want

7 [Red Hat] to

Continued from page 1

Red Hat migrate to a full open-source stack supported by Red Hat. "It would be a hard sell," said Sam Lovd, a senior database and systems administrator at McKee Foods Corp. The Collegedale. Tenn.-based maker of Little Debbie snacks and other products is testing Oracle

Corn's database software on Linux servers. But Loyd said the company is unlikely to try Red Hat's directory software McKee undertook "a huse project" to deploy Microsoft Corn's Active Directory Lord said, adding that it would be difficult to get the IT staff "ex-

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Seeking Stability Other users, such as Mike Pearlman, a systems administrator for the city of Lango. Fla., said they're looking to Red Hat chiefly for a stable operating system. Pearlman said the city might consider Red Hat's Cluster Suite highavailability software but has no need for a full technology stack from a single vendor. Bud Has CEO Marthur Con lik said his company is focusing on infrastructure software, an area where the vendor feels it provides additional value to its operating system users.

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FRANK HAYES * FRANKLY SPEAKING

Summer of Code THAT'S THE MATTER WITH KIDS TODAY? Lack

HAT'S THE MATTER WITH KIDS TODAY! Lack of experience. At least that's what's wrong with fresh-out-of-school job applicants from the point of view of corporate IT. These kids may have perfectly respectable computer science educations. But they've got no experience. Their IT knowledge is virtually all from theory, just about none from practice. The IT systems they've developed have typically been trivial, academic jobs. In the real world of corporate IT, they have a lot to learn.

So last week's announcement that Google is sponsoring a "Summer of Code" is great news for IT. Or terrible news. Or maybe both.

The idea is simple esough: A student age 18 to handle code reviews by other programmers.

The idea is simple enough: A student age I8 or older can propose an open-source project at code google com/summers/food-hmt/. If the application is approved by an open-source sponsoring group, the student gets a \$500 stipend and mentoring. If the work is completed, the student can get an additional \$4,000 award and a T-shirt, and the open-source group gets \$500. Google's fronting the money for 200 applicance.

What does Google get for its million-dollar investment? A pile of goodwill with the opensource crowd, and probably an inside track for hiring any of those 200 winning applicants. If you think of it as a big internship program that pays each intern a measty \$1,500 a mooth, you've our her light business model in mind.

Where it gets interesting is in what the studeots will have to do. They'll have to propose projects that have real, practical value to opersource groups such as The Perl Foundation, the Mono Project or Ubuntu Linux. They'll have to necotiate details and nail down plans.

Then they'll have to run the projects, which means making their code public on a site like SourceForge net, dealing with all the input and complications of the open-source process and doing it all on the usual open-source budget: a threadbare

shoestring.

And if a program participant gives up and doesn't complete the project, no \$4,000 — and no T-shirt.

See the benefit? Nobody coming out of this "Summer of Code" deal will emerge believing an IT project is about algorithms, intelligence and degance. Yeah, you need those things in real-world IT. But you also need business-value judgment, political savey and skin thick enough not just professors and graduate assistants. Those are qualities with real value to IT shops — qualities that come only from experience. Some programmers never gain those qualities. This summer, 200 student program-

qualities. This summer, 200 student programmers almost certainly will. Now, bere's the downside: It's open-source. That means the experience will come in a lightly supervised environment. That's great for

self-starters, but lousy as preparation for any IT department that practices micromanagement. And it will come from squeezing out results on tight schedules with limited resources, not jockeying for more budget, more bodies and more time. In many IT shops, that lean-and-clean approach gets lots of lip service but it's actually a career-limiting strategy.

Most important, these students will come out believing they know how to do a successful real-world project. And they'll be right. But it won't necessarily be the way you'd want them to do a project.

That's the trade-off, for them and for us.

They won't find themselves leaping off an ivory

tower into a pit of real-world IT. They'll have practical experience. But they'll bring open-source notions that we may not be ready for. And that's worth keeping in mind, whether you'r leakly enough to stage a successful "Summer of Code" participant for a job interview or you're looking across your desk at any other job seckers whose résumés include work on

open-source projects.

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Looks Like a Long, Hot Summer

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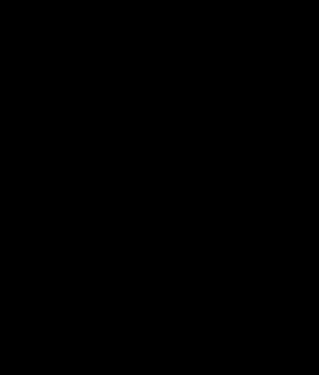
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